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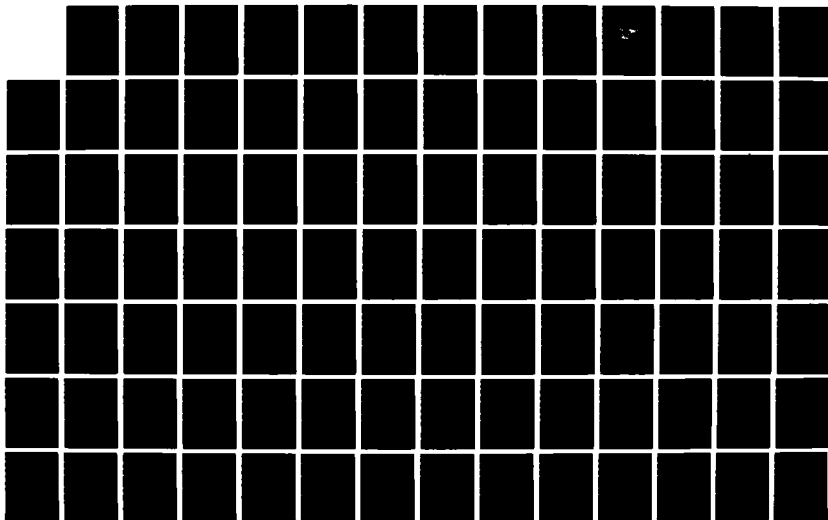Polar Code Calculations of the Shuttle
Orbiter Plasma Wake and Direct Comparisons
With Spacelab II Measurements

I. Katz
G. A. Jongeward
J. R. Lilley, Jr.
M. J. Mandell

S-CUBED
A Division of Maxwell Laboratories
P.O. Box 1620
La Jolla, CA 92038

November 1986

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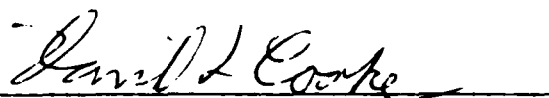"This technical report has been reviewed and is approved for publication"

DAVID COOKE
Contract Manager
Spacecraft Interactions Branch
Space Physics Division

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Space Physics Division

FOR THE COMMANDER

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POLAR Code Calculations of the shuttle Orbiter Plasma Wake and Direct Comparisons with Space-lab II Measurements

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Katz, I., G. A. Jongeward, J. R. Lilley, Jr. and M. J. Mandell

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19 ABSTRACT (Continue on reverse if necessary and identify by block number)

Prior to the 1985 launch of Spacelab II, arrangements were made to use the POLAR code to predict the wake of the shuttle orbiter which was to be measured by the Plasma Diagnostics Package (PDP) satellite. This report describes the comparison of POLAR code calculations with the plasma density measurements made on the PDP. All calculations were made prior to the availability of any information on the measured results; there were no adjustable parameters. The overall qualitative features of the calculated wake agreed well with the experiment. For the four major wake transits, the measured depletions differed from the POLAR computer predictions by 15% or less.

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Introduction

Prior to the 1985 launch of Spacelab II, arrangements were made to use the POLAR code to predict the wake of the shuttle orbiter which was to be measured by the Plasma Diagnostics Package (PDP) satellite. The Spacelab II experiment is the first to examine the large scale plasma disturbance caused by a large orbiting spacecraft. This data is of great value for validating the wake model in the POLAR code. The accuracy of the POLAR predictions would determine its usefulness in the design of flight hardware and experiments. In order to remove any questions about the validity of the comparison, the calculations were to be completed and distributed before launch. The preflight calculations were made, but due to orbiter engine difficulties, the flight plan was modified and direct comparisons between data and the previous calculations were not possible. After the flight, but before the data was reduced, the revised orbital parameters were transmitted to S-CUBED and new POLAR wake calculations were performed. This report describes the comparison of these POLAR code calculations with the plasma density measurements made by the PDP. All calculations were made prior to the availability of any information on the measured results; there were no adjustable parameters. The method of data transfer and the POLAR code parameters are discussed.

The orbital coordinates, the driver program used to convert the coordinates to POLAR input, and the complete results of the five thousand calculations are included as appendices. The poster describing the comparison as presented at the Fall 1986 AGU meeting by Gerry Murphy of the University of Iowa and the major results are summarized in the text. The overall qualitative features of the calculated wake agreed well with experiment. For the four major transits, the measured depletions differed from the POLAR computer predictions by 15% or less.

This comparison between POLAR calculations and experiment could not have been possible without the work of several people. We would like to thank Gerry Murphy and Jolene Pickett of the University of Iowa for supplying the

electron density measurements, and performing the comparison. Carolyn Purvis of NASA/LeRC and Michael Heinemann of AFGL for coordinating the data exchange, Roger Williamson of Stanford University for setting up the data exchange network, and David Reasoner of NASA/MFSC for providing the oxygen ion measurements.

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The POLAR Wake Model

The POLAR code is designed to predict the plasma flow and charged particle interactions of large spacecraft in low polar earth orbit. The code performs calculations in three dimensions using a restricted geometrical description of the spacecraft. The geometrical model of the shuttle orbiter used for this comparison is shown in Figures 1 and 2. Further information about the POLAR code and a complete description of the wake model is available in Reference 1. Below we summarize the algorithm with emphasis on the physical model.

POLAR Code Wake Model

The POLAR code calculation of wake densities in three dimensions requires great simplifications. Geometrical effects are estimated assuming that ions move in straight lines and are prevented from reaching a location if they run into the spacecraft. Thermal distribution of velocities are included, and the effect of electric fields upon ion trajectories are included approximately.

For very low densities and for neutral particles the ion distribution function $f_i(x, v)$ at a point x in space for a velocity v can be found using

$$f_i(x, v) = g(x, \Omega) \, f_{io}(v) \tag{1}$$

where $f_{io}(v)$ is the unperturbed velocity distribution function for a drifting Maxwellian. The function $g(x, \Omega)$ has value zero if a ray starting from x in the direction Ω would strike the vehicle; it has value 1 otherwise. The charge density is obtained by integration over velocities:

$$n_i(x) = \int f(x,v)dv = \int_\Omega g(x,\Omega) \left[\int_0^\infty f_{io}(v,\Omega)v^2 dv \right] d\Omega \tag{2}$$

For dense plasma, filling in of the wake is due to self electric field acceleration. In the limit $T_e >> T_i$, and the electrons maintain an equilibrium with the electrostatic potential ϕ

3
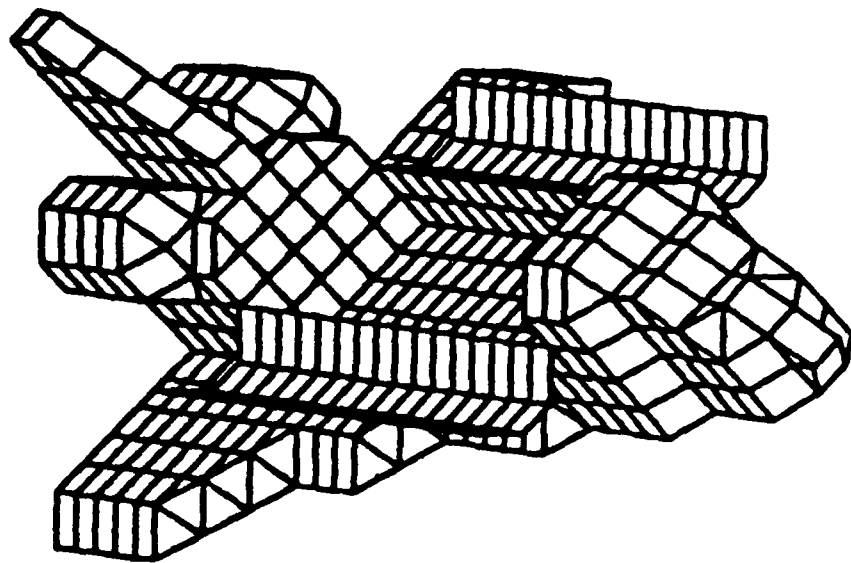
Figure 1. The POLAR model of the shuttle orbiter.
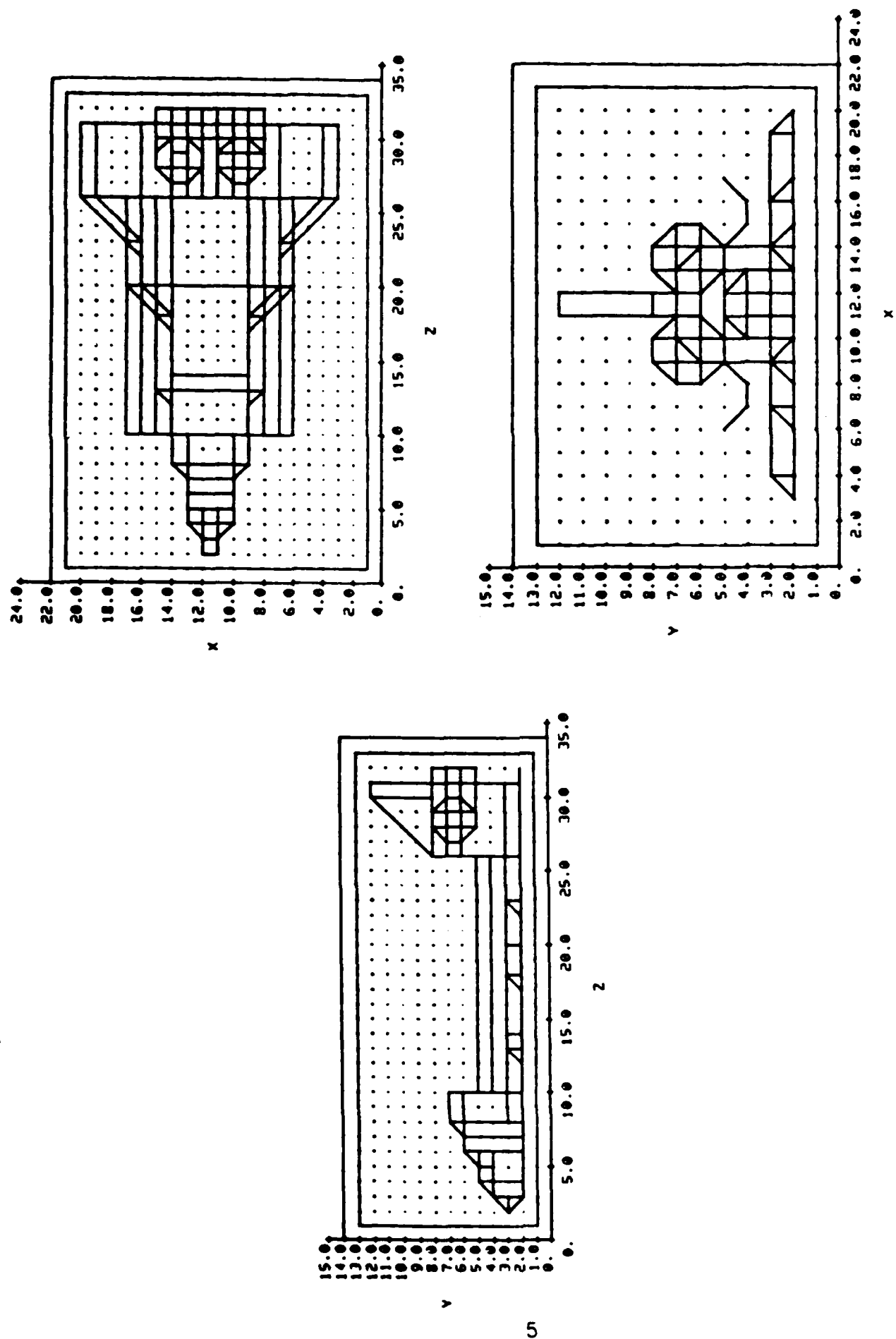
Figure 2. The POLAR model of the shuttle orbiter.

$$n_e = n_0 \exp(e\phi/kT_e) \ , \tag{3}$$

the expansion can be described by the hydrodynamic equations

$$\frac{\partial n_i}{\partial t} + \frac{\partial}{\partial x}(n_i v) = 0 \tag{4}$$

$$\frac{\partial v}{\partial t} + v \frac{\partial v}{\partial x} = -\frac{e}{M}\frac{\partial \phi}{\partial x} \tag{5}$$

and Poisson's equation

$$\frac{\partial^2 \phi}{\partial x^2} = 4\pi \ e(n_e - n_i) \ , \tag{6}$$

where n_i, v and M, are respectively, the density, velocity and mass of an ion, at position x and time t. In the planar plasma expansion problem, after times longer than a few ion plasma periods, the plasma evolves into an asymptotic state which is self-similar and can be found by solving Equations (2) - (5) under the assumption of quasi-neutrality. The self-similar density profile for $X > -S_0 t$ is given by

$$n_{ss}(x) = n_0 \exp(-(x - S_0 t)/S_0 t) \ . \tag{7}$$

Using $t = z/v_0$, Equation (7) can then be used to determine the spatial variation of density behind a high Mach number object. To a reasonable degree the wake density profile behind the sharp expansion front can be described by the quasi-neutral, self-similar result, while the density ahead of the front is not much different from that predicted by the neutral ion theory. Therefore, in the POLAR code, behind the expansion front the densities are calculated correcting for the quasi-neutral electric field effect; and ahead of the front uncorrected neutral ion densities are used. Geometrical effects for the regions dominated by self electric

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field acceleration are approximated assuming that the density can be factored in the same way as the distribution function is in Equation (1).

$$n(\mathbf{x}) = \bar{g}(\mathbf{x}) n_{HP}^{O}(\ell, \theta) \tag{8}$$

where $n(\mathbf{x})$ is the density from Equation (2), $n_{HP}^{O}(\ell, \theta)$ is the neutral density behind a semi-infinite half plane a distance ℓ back and making an angle θ with respect to the ram direction. The distance ℓ and angle θ are found from the largest value of $f(\mathbf{v})$ with a nonzero $g(\mathbf{x}, \Omega)$ (Equation 2). The effective geometric factor, $\bar{g}(\mathbf{x})$, is found using Equation (8). To obtain an approximate solution, taking into account the plasma electric fields, the density as determined by Equation (7) is multiplied by a geometrical factor determined from Equation (8)

$$n'(\mathbf{x}) \simeq \bar{g}(\mathbf{x}) \, n_{SS}(\mathbf{x}) \qquad \text{where } x = \ell \sin \theta \tag{9}$$

The Computational Parameters

During a part of the Spacelab II mission, the PDP was released from the orbiter and flew as an independent satellite. The orbiter was maneuvered so that the PDP would be able to measure the disturbed plasma region around the shuttle, making several passes through the shuttle wake. The plasma density in the wake was determined from both ion and electron measurements.

During the PDP freeflight, the orbiter was oriented so that the cargo bay was aimed at the PDP. This was to maintain communication using the orbiter S-band antenna and to track the satellite using the Ku-Band radar. The calculations assumed the PDP was always aligned with the orbiter z-axis. The orbital information was transmitted in the PDP-centered LVLH reference frame. A file with the coordinates as a function of time was transmitted from the University of Iowa to Stanford University via SPAN, and forwarded from Stanford to S-CUBED over the ARPANET. A computer program was written to convert the

LVLH coordinates into POLAR code coordinates and Mach vectors. This code, and the associated data initiation module, are in Appendix A. The first few pages of output, including the code parameters, are also in Appendix A. The calculated density was appended to each position record. For the record, the calculational results as transmitted to the University of Iowa are contained in Appendix B. A plot of the calculated density vs. time can be found in the next section.

Comparison Between Calculation and Experiment

What follows is the abstract and contents of a poster presentation made by Gerry Murphy et al. describing the measurements and comparing them with the POLAR calculations. The POLAR calculations include electric field corrections to the neutral approximation, but the electric field had little effect far from the orbiter. The deep wake transits lead Murphy to conclude that beyond approximately 30 meters (one spacecraft diameter) the code seems to predict quite accurately (within about 10%) the plasma density. Note that the ion and electron data agree quite closely. Qualitatively, the structure of the wake agreed well with experiment. There were none of the non-monotonic local density peaks as observed in many laboratory experiments. This agreed well with preflight predictions. The peaks are caused by large T_e/T_c; in the ionosphere $T_e \sim T_i$ and wakes are expected to be relatively smooth featured[2,3].

The ratio of observed to undisturbed plasma density ranged from 23% to 80% for the observations and from 20% to 65% for the calculations. Very near the orbiter the model systematically underestimated the density compared with the measurements. Detailed comparisons near the orbiter were not expected to be accurate since the measurements were made from the end of a three meter boom and the calculations were for the center of the PDP. The coarse POLAR geometrical description of both the orbiter and the PDP may also have played a role in the close in discrepancy. This and other areas of disagreement will be studied in the future, time and money permitting.

The Large Scale Wake Structure of the Shuttle Orbiter

G. B. MURPHY (Dept. of Physics and Astronomy, Univ. of
Iowa, Iowa City, IA 52242)
I. KATZ (S-Cubed, P. O. Box 1620, La Jolla, CA 92038),
D. L. REASONER (NASA/MSFC, Huntsville, AL 35812),
N. D'ANGELO, J. S. PICKETT, W. S. KURTH (all at: Dept.
of Physics and Astronomy, Univ. of Iowa, Iowa City,
IA 52242),

During the 1985 Spacelab 2 mission, measurements of
ion and electron densities were made by the free flying
Plasma Diagnostics Package (PDP) satellite as it
traversed the plasma wake of the shuttle orbiter at
distances of approximately 50-200 meters. A three-
dimensional simulation of the plasma wake using the
polar code was performed using the as-flown PDP
trajectory. The polar code calculates zeroth order
densities using a 'neutral ion' model (particles have
straight line trajectories) and then corrects to first
order for electric fields. Comparisons between obser-
vations and the wake model will be presented.

1. 1986 Fall AGU Meeting

2. 000664789

3. (a) G. Murphy
      Physics and Astronomy
      University of Iowa
      Iowa City, IA 52242

   (b) 319/353-6036

4. SM

5. None

6. S (Oral preferred)

7. None

8. (a) Bill To:

      ATTN: K. Kurth
      Physics and Astronomy
      University of Iowa
      Iowa City, IA 52242

9. C

10. Schedule before/after
    A. Tribble from Iowa

INTRODUCTION

The Plasma Diagnostics Package (PDP) was one of 13 experiments aboard Spacelab-2 on STS 51F. One of the principal objectives was to measure the characteristics of the wake of a large structure such as the orbiter. The purpose of this presentation is to compare the O+ ion density measurements from the Retarding Potential Analyzer (RPA) and the electron density measurements from the Langmuir probe with predictions from a wake model contained in the 'POLAR' code.

This poster consists of 1.) a description of the code and the physics it contains; 2.) presentation of and comparison of ion and electron density data with model predictions; and 3.) a discussion of the problems associated with modeling large scale wake structures and the practical limitation of codes employing neutral approximations.

THE ORBITER TRAJECTORY

Figures 3, 4, and 5 illustrate the attitude of the orbiter during separation, the trajectory of the orbiter with respect to the PDP during the six hours of free-flight maneuvers, and a detail of the specific wake transit maneuvers.

The coordinate system shown is the X-Z plane of the Local Vertical/Local Horizontal (LVLH) coordinate system. This is a non-inertial system where the X-axis coincides with the velocity vector and the Z-axis with the nadir or earth pointing vector. The PDP is always at the origin of this reference system. As can be seen, a one dimensional map of the orbiter wake is obtained during separation from approximately 10 to 90 meters along the velocity vector. During the wake transit maneuvers cross-sections of the wake are examined from approximately 35m to 250m downstream of the orbiter. These transits take place in the relatively stable dayside ionosphere.

11

ORBITER SEPARATION MANEUVER

PDP SEPARATION → ~(0.1 M/S)

SHUTTLE MOTION ~(8 KM/S)
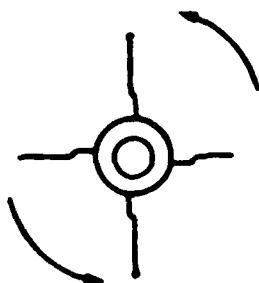
ORBITER FLY-AROUND TRAJECTORY

WAKE ZONE

PDP AT ORIGIN

UP — y — DOWN

+V — X — -V
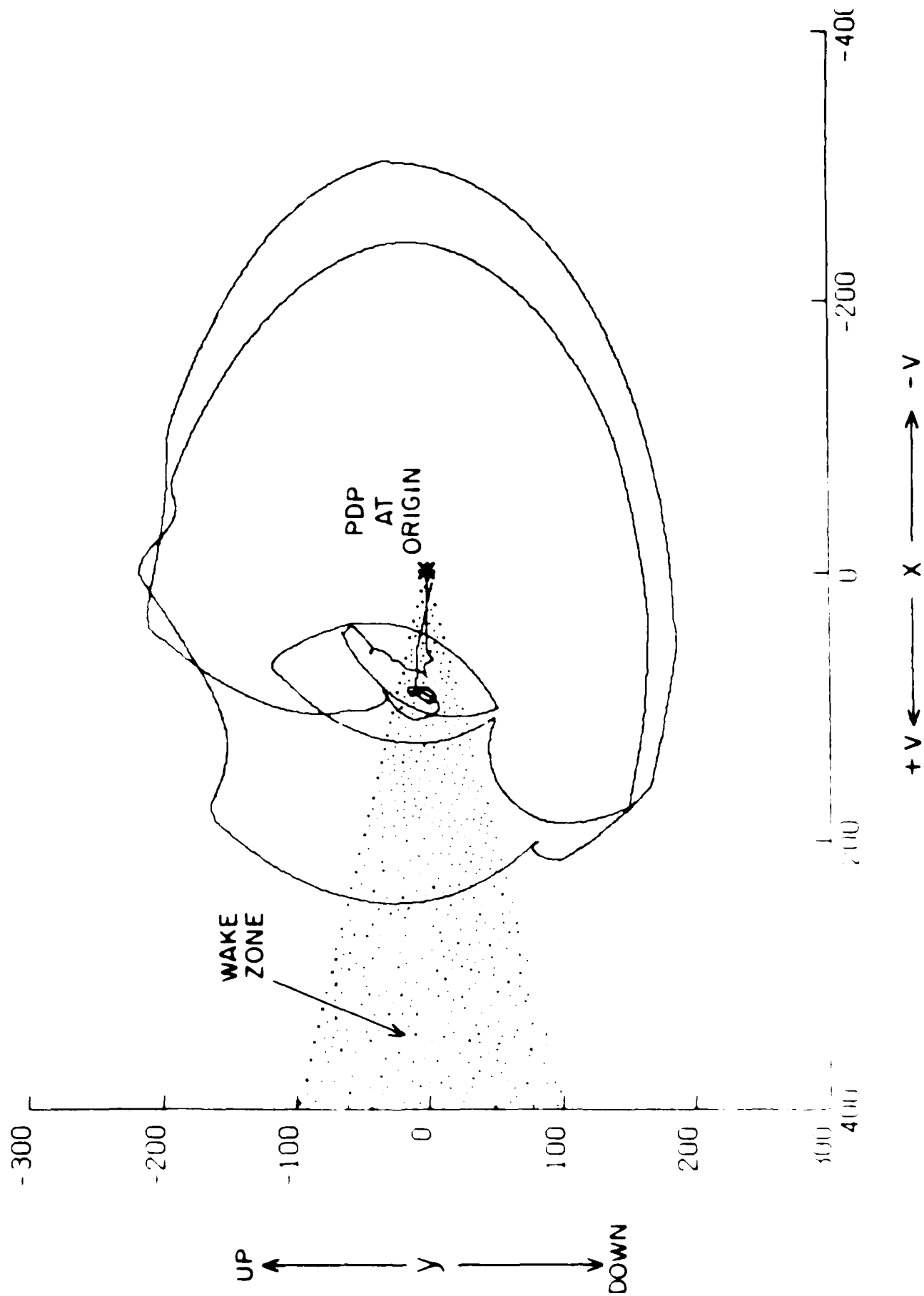
WAKE TRANSIT DETAIL
(ORBITER TRAJECTORY)
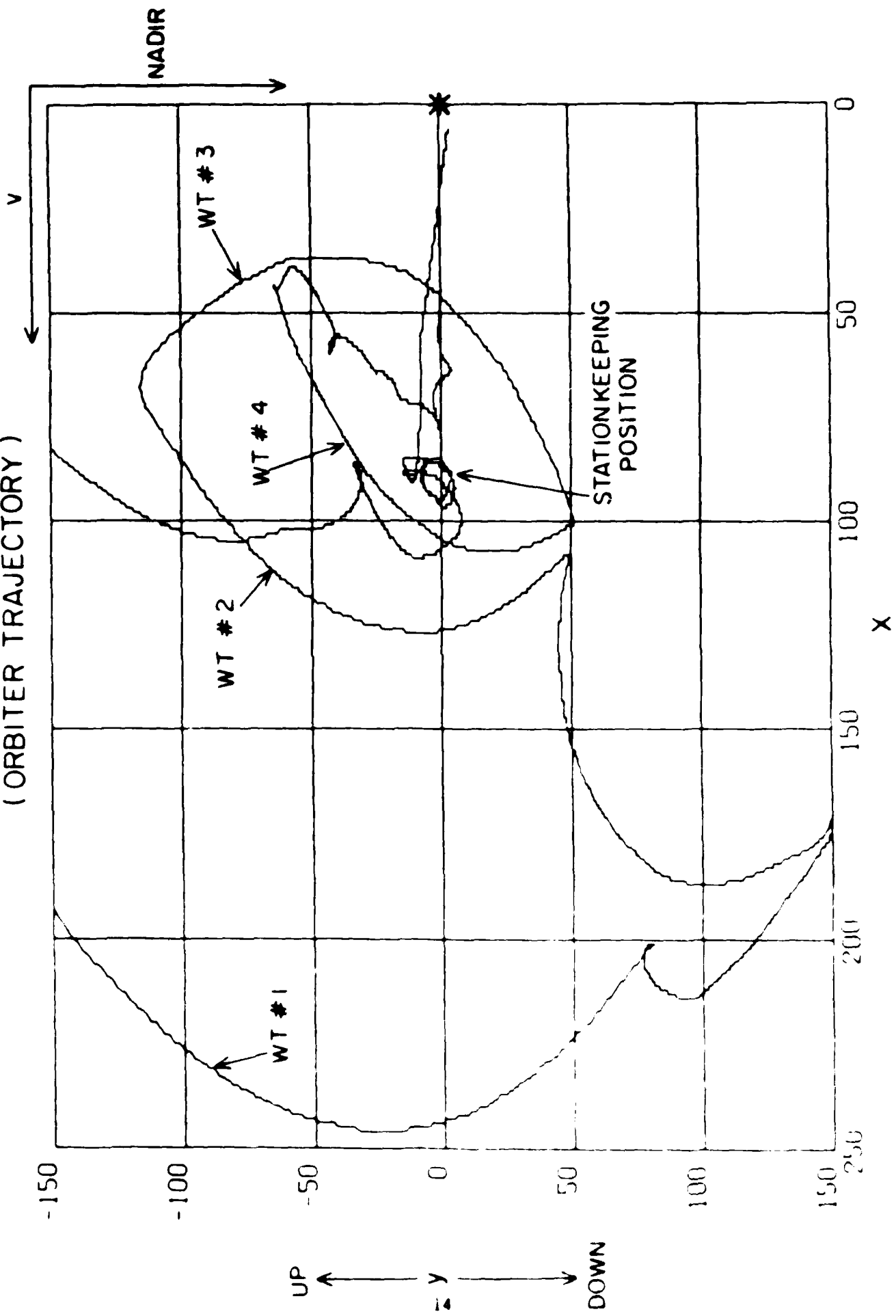
IONOSPHERIC CONDITIONS

The altitude of the orbiter during the PDP free flight was 325km and the orbit inclination was 49.5 degrees. Typical ionospheric densities on the dayside are 1×10^5 to 5×10^5. Temperatures are typically 1000 to 2500 degress kelvin. O^+ is the dominant ionic component. The orbiter velocity of 7.7km/sec results in the interaction with the ionosphere being supersonic with respect to ions (mach 6-8) but sub-sonic with respect to electrons (< mach .05). The body size of the vehicle is 10,000 times the debye length; about 1000 times the electron gyroradius; and is even large (5-10 times) compared to the ion gyroradius. This places the orbiter wake investigation in a unique position in the parameter space heretofore examined by laboratory and space experiments. Although neutral approximation theory was developed for spacecraft of much smaller scale we apply it in this case to test the physics behind its assumptions and to see if it can serve as a practical and simple model for certain large body applications.

ELECTRON AND ION DATA

The next set of figures illustrates electron and ion density profiles for:

a.) backaway (ion and electron) fig. 7, 8, 9
b.) wake transit 2 (electron only) fig 10, 11
c.) wake transit 3 (ion and electron) fig. 12, 13, 14
d.) wake transit 4 (electron only) fig. 15, 16

The recovery phase is not also used in these comparisons since much of it took place during a crossing of the relatively unstable nightside ionosphere and even variations on the dayside complicate interpretation of the data.

ORBITER BACKAWAY
OBSERVED DENSITY

A-G86-871

THRUSTER
OPERATION

NOMINAL IONOSPHERIC
VARIATION DOMINATES

TIME

LOG DENSITY

17
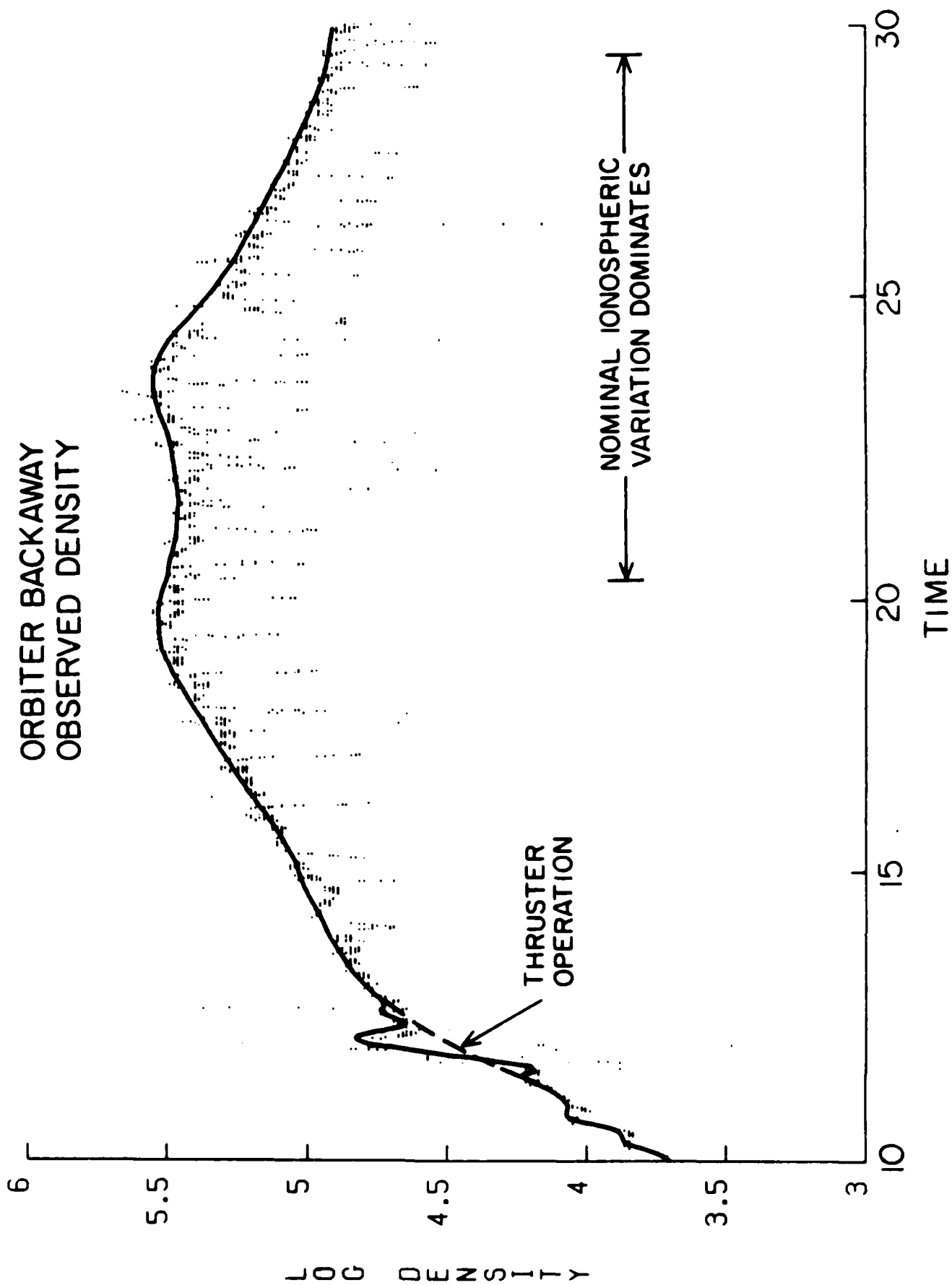
ORBITER BACKAWAY
PDP O+ DENSITY
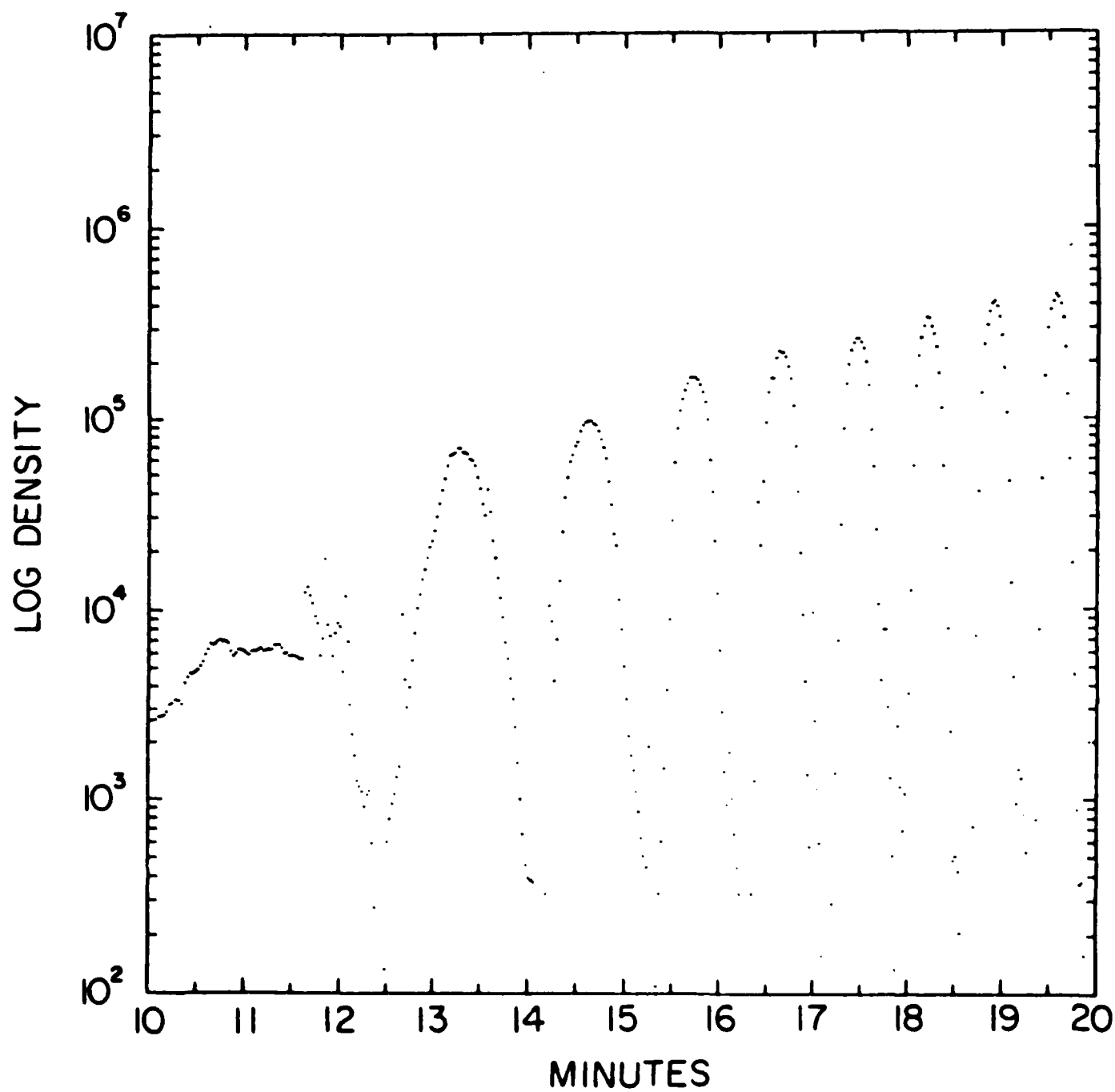
WAKE TRANSIT # 2
OBSERVED DENSITY

A-G86-864

19

WAKE TRANSIT # 3 DATA

ASSUMED AMBIENT DENSITY

DENSITY DEPLETION

$$\frac{n_u}{n_D} \approx 0.23$$

CLOSEST APPROACH $\approx 45\,m$

A-686-873

LOG DENSITY

TIME
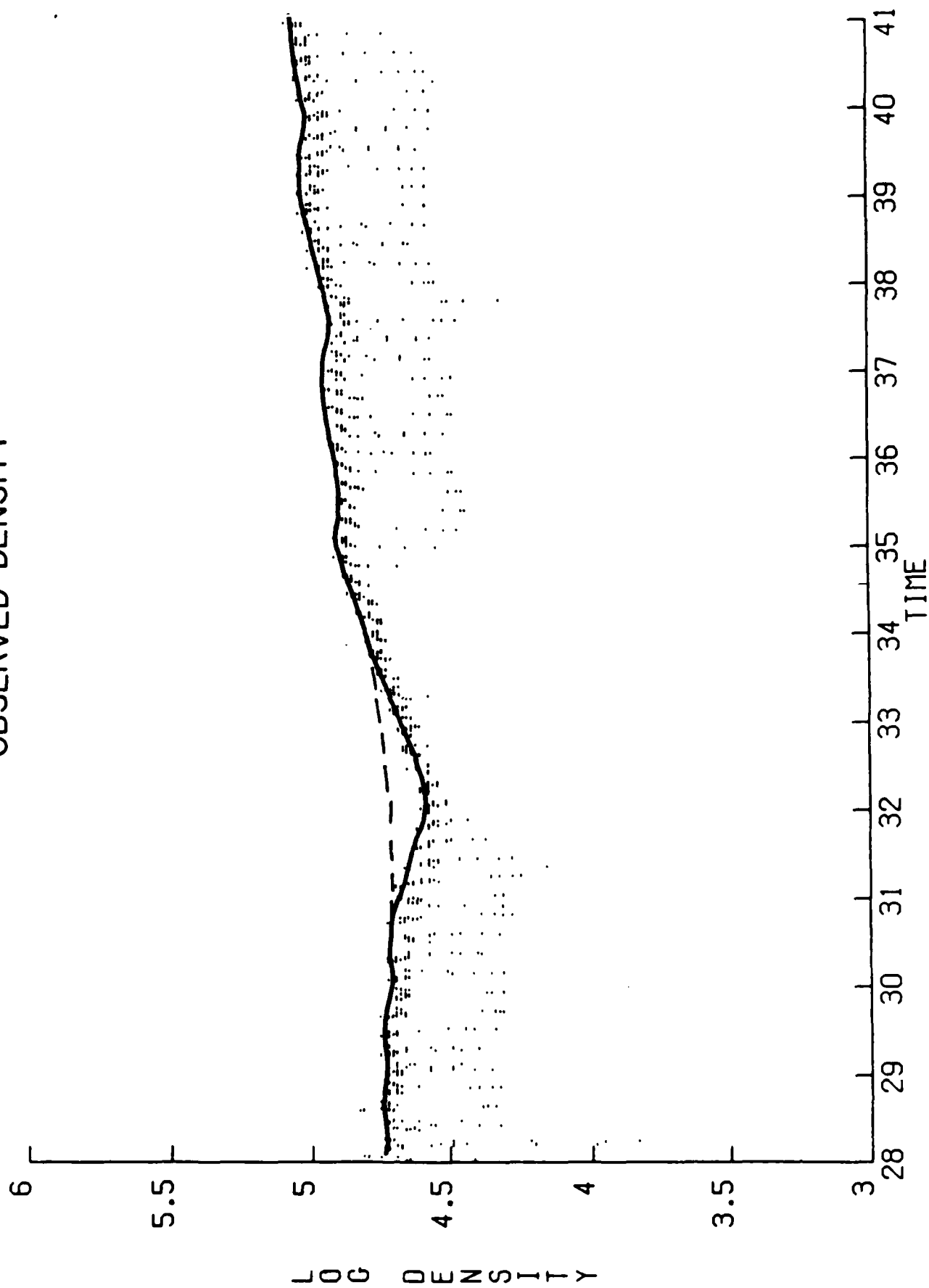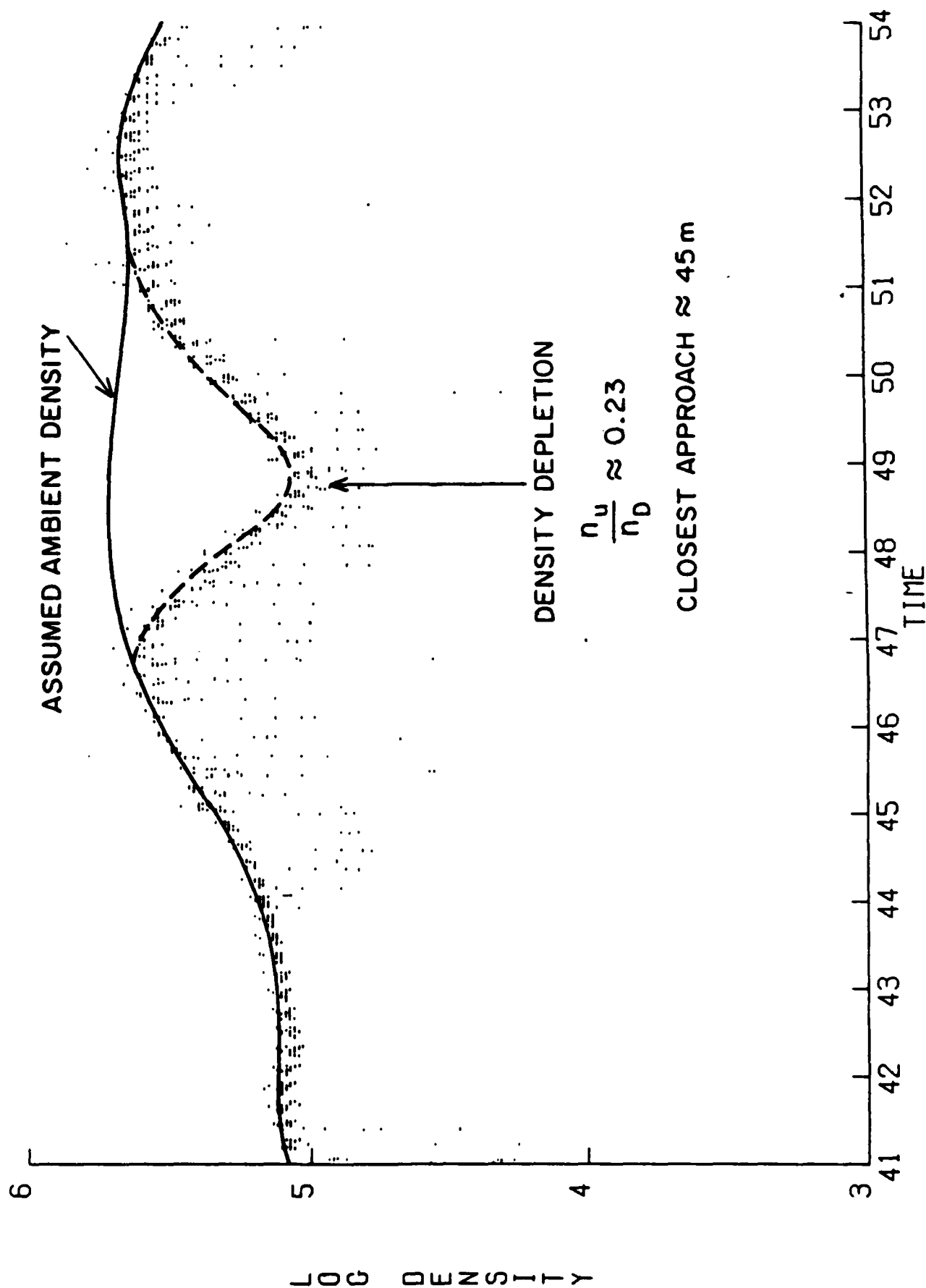
WAKE TRANSIT # 3
PDP O+ DENSITY
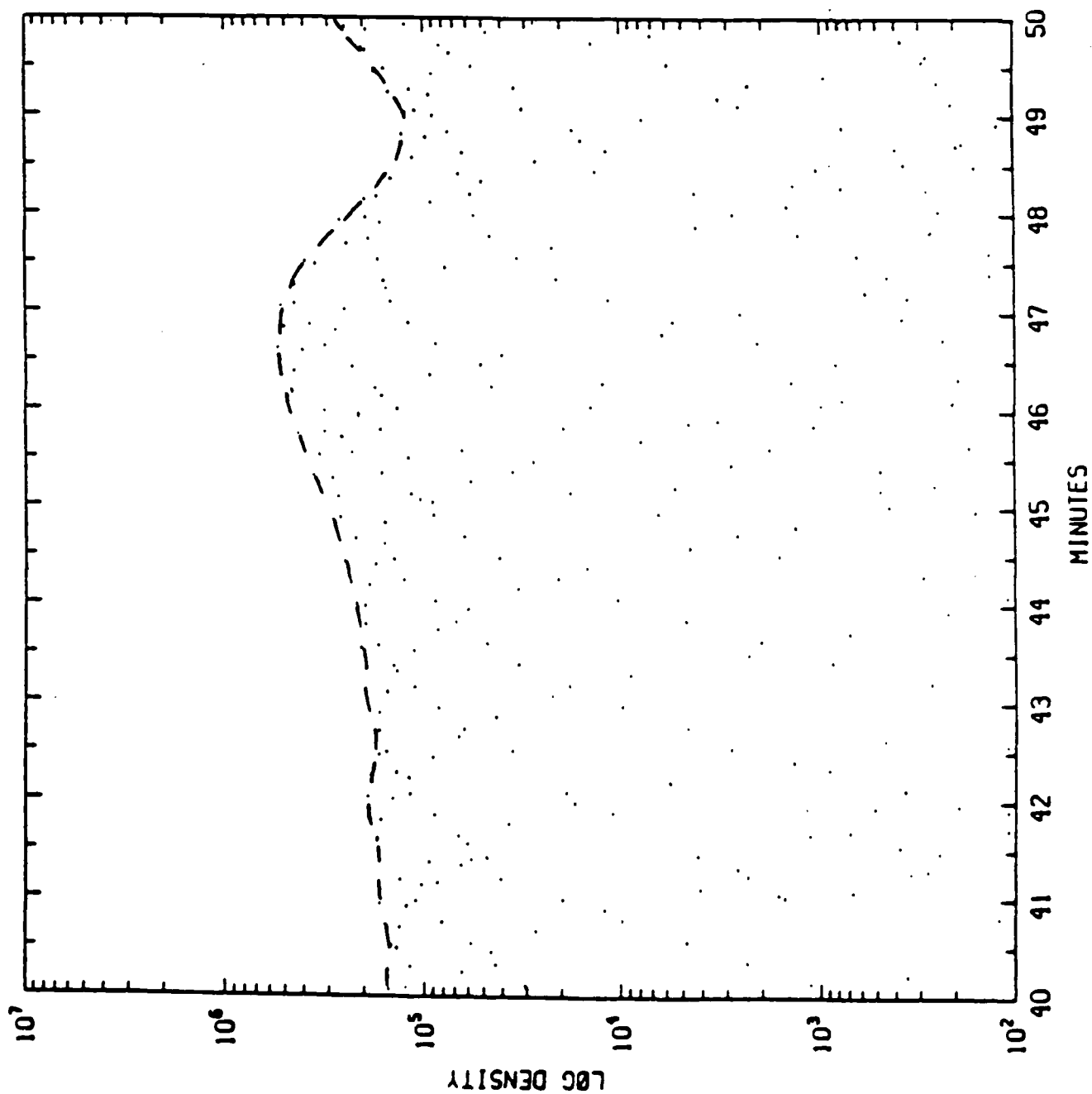
WAKE TRANSIT # 4
OBSERVED DENSITY

86-869

LOG DENSITY

22
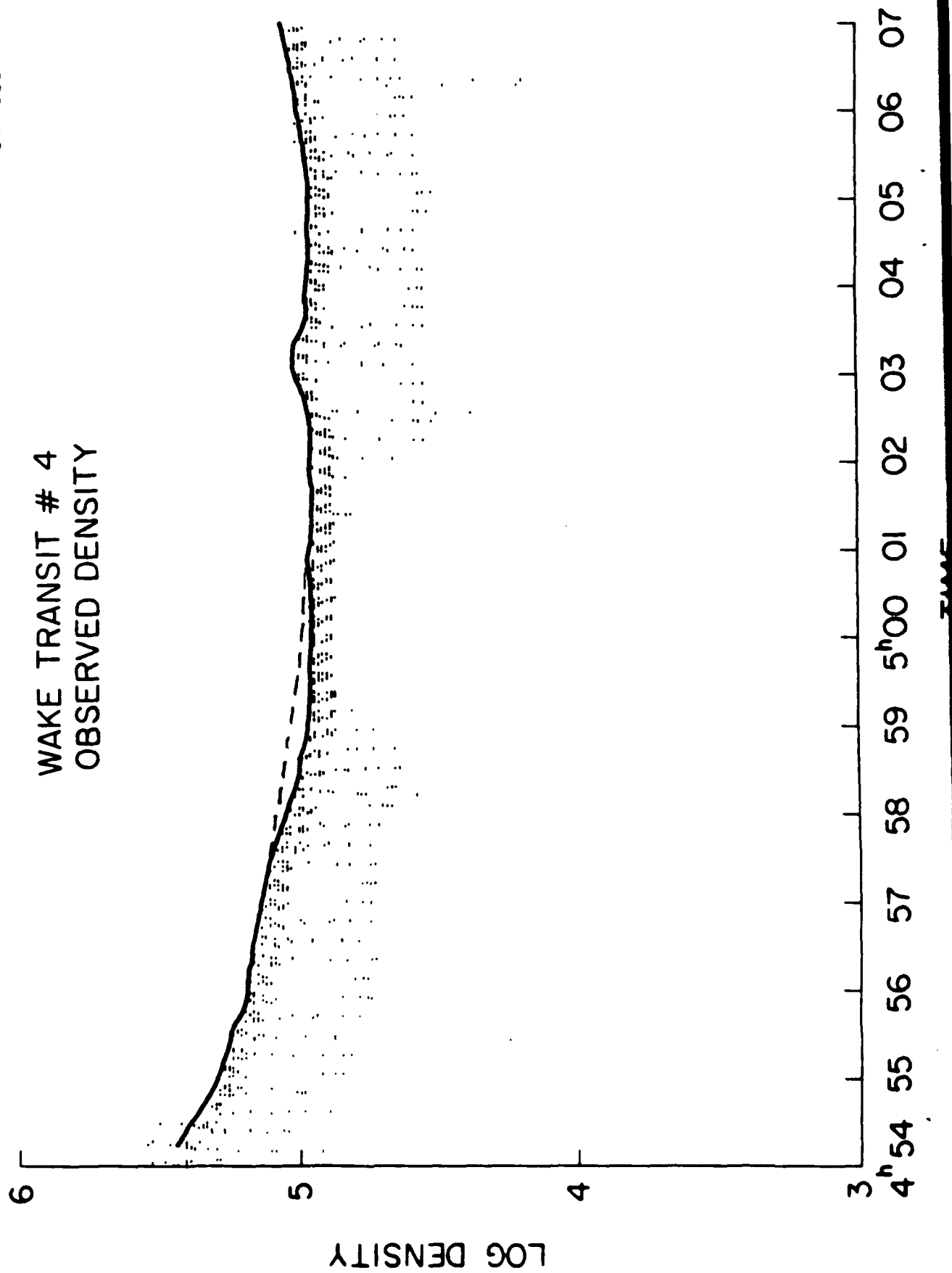
POLAR PREDICTIONS

Calculations performed using the POLAR code produce a plot normalized density (n_{wake}/n_{ram}) where n_{ram} was modeled as constant density/temperature plasma

$$n_e = 5 \times 10^5 \quad \text{and} \quad T_e = 2500 \text{ K}$$

Figure 4 indicates the results of these calculations presented on a time scale of six hours with all wake transits indicated. Wake transit 1 will not be used in a detailed comparison to the experiment data since the code predicts only 10% depletion and this variation is within the noise level of that data. However, wake transits 2, 3, and 4 as well as the backaway can be used for comparison to the experiment.

ENTIRE FREE FLIGHT
CALCULATED DENSITY

A-G86-867
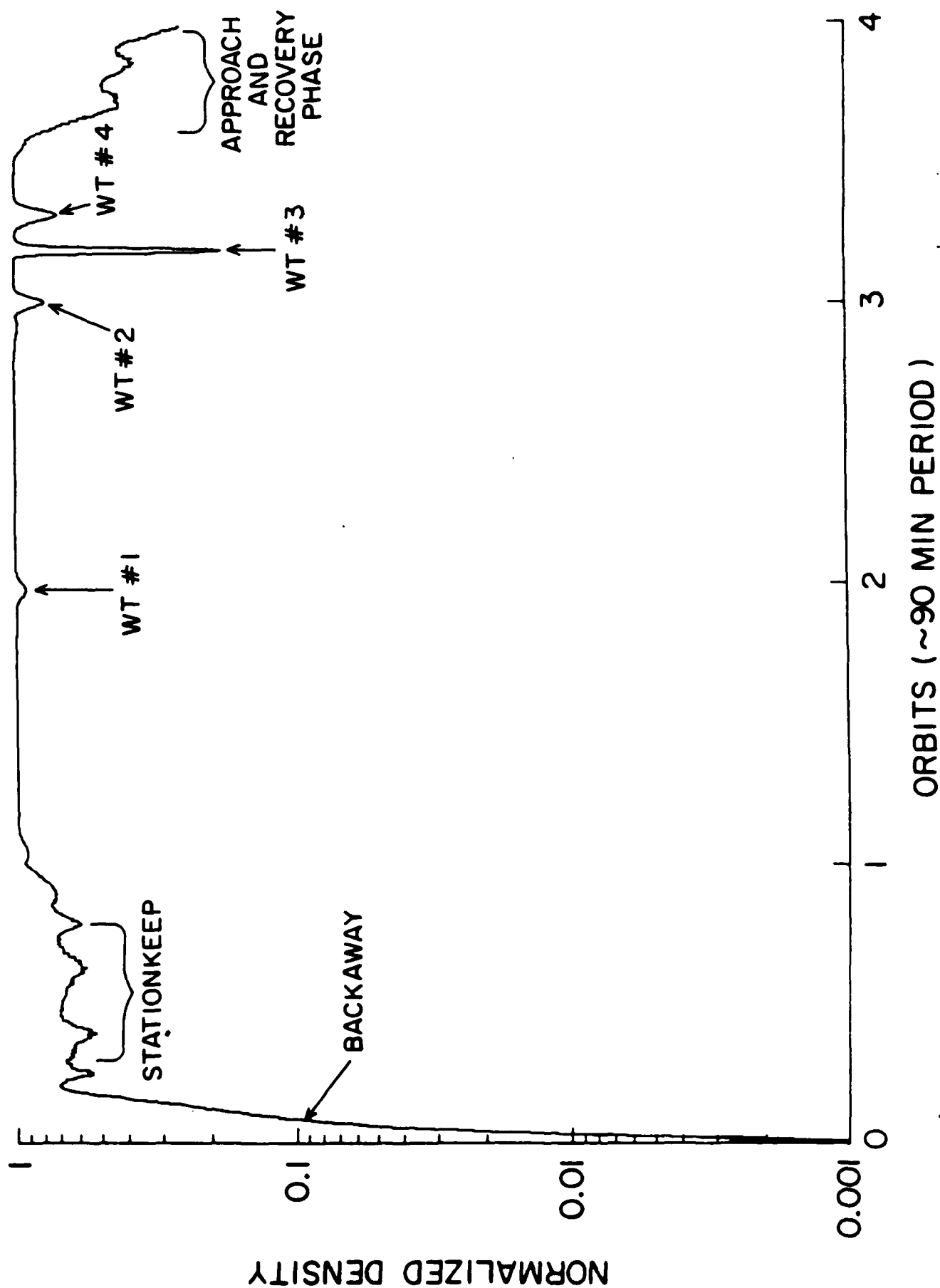
ORBITER BACKAWAY
CALCULATED DENSITY

A-G86-870

X = 85 m

X = 73 m

X = 32 m

X = 12 m

NORMALIZED DENSITY

TIME

25
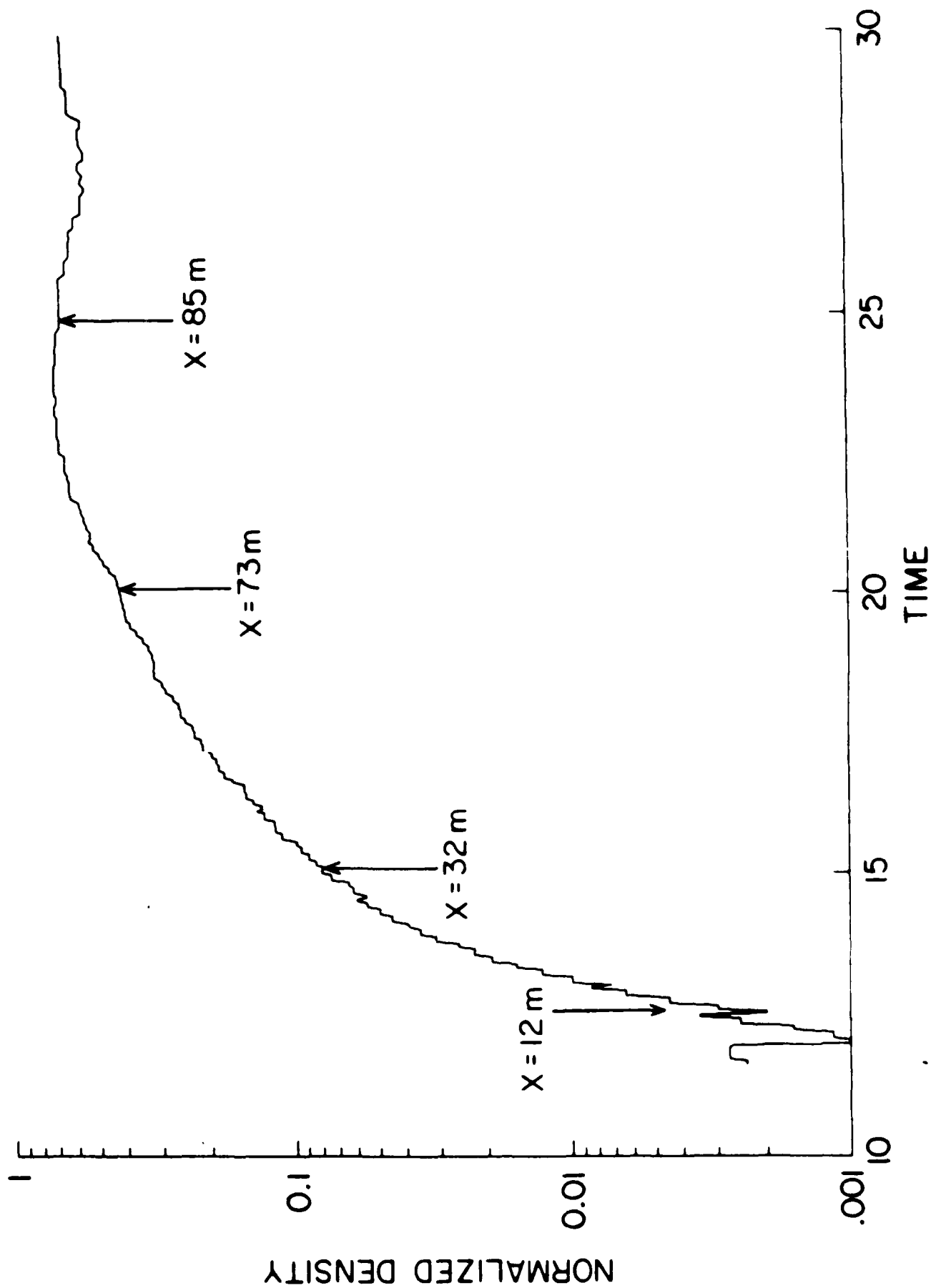
WAKE TRANSIT # 2
CALCULATED DENSITY

A - G05 - 063

NORMALIZED DENSITY

TIME

26
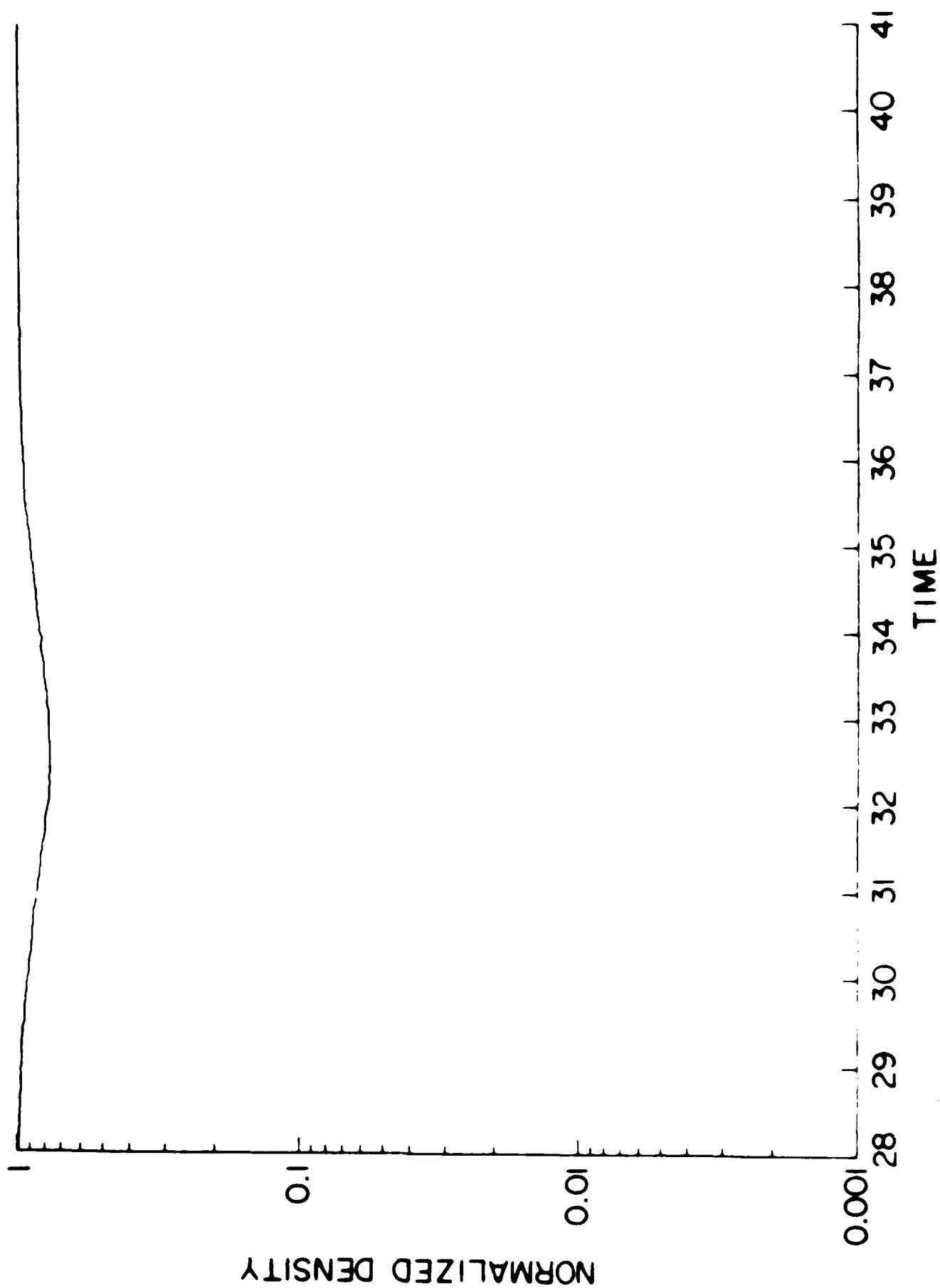
WAKE TRANSIT #3
CALCULATED DENSITY

A-G65-872

NORMALIZED DENSITY

TIME

27
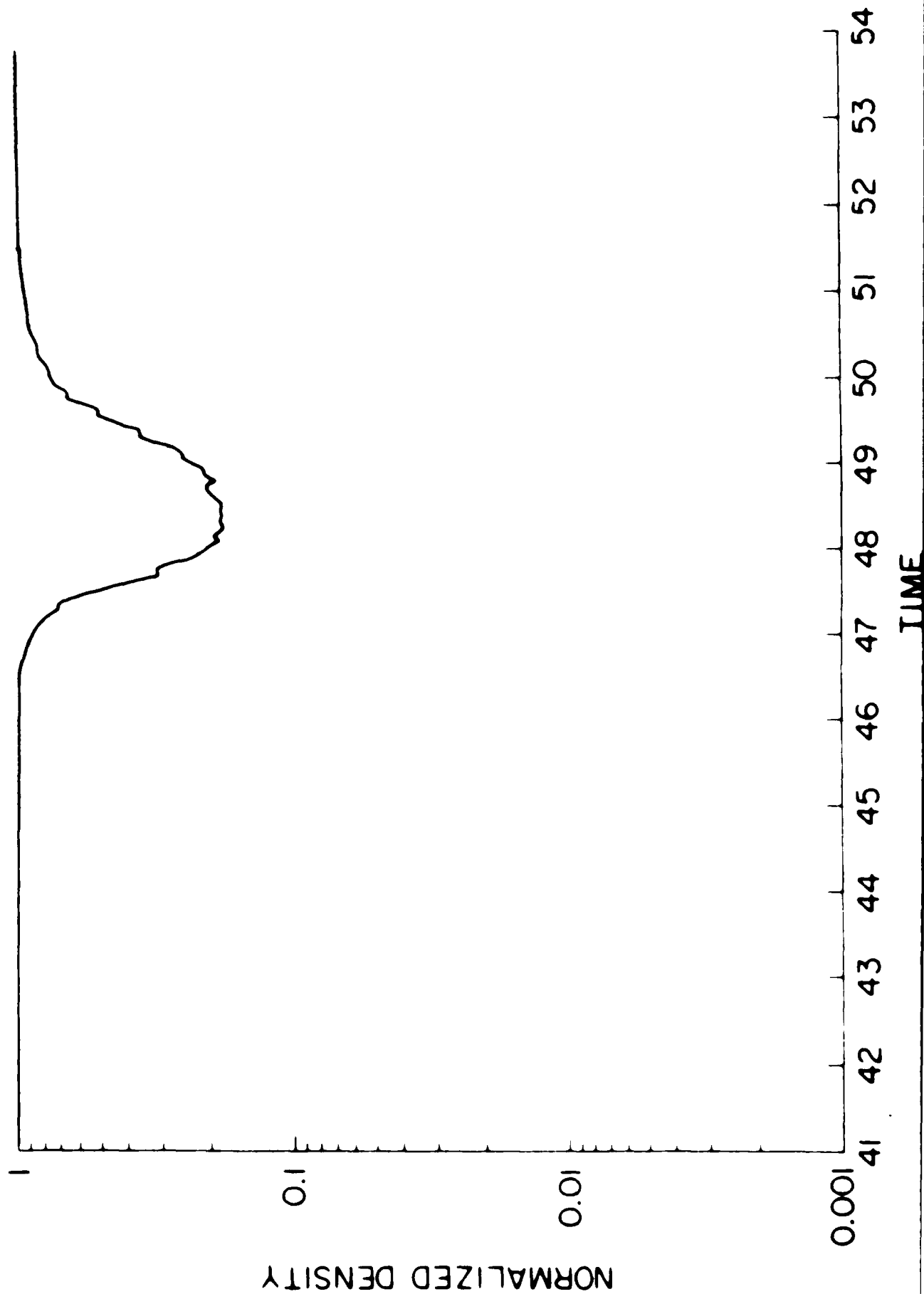
DISCUSSION

Several general conclusions can be drawn by comparing ion and electron data to the POLAR code model. (Table on next page.)

1. Beyond approximately 30 meters (one spacecraft diameter) the code seems to predict quite accurately (within about 10%) the plasma density. Note that the ion and electron data agree quite closely.

2. Close to the orbiter the code underestimates density.

3. Details such as an offset in the center of the wake (see wake transit #3) from its predicted location illustrate what seem to be inaccuracies in the model assumptions.

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WAKE TRANSIT # 4
CALCULATED DENSITY

A - G86-868

NORMALIZED DENSITY

TIME

29
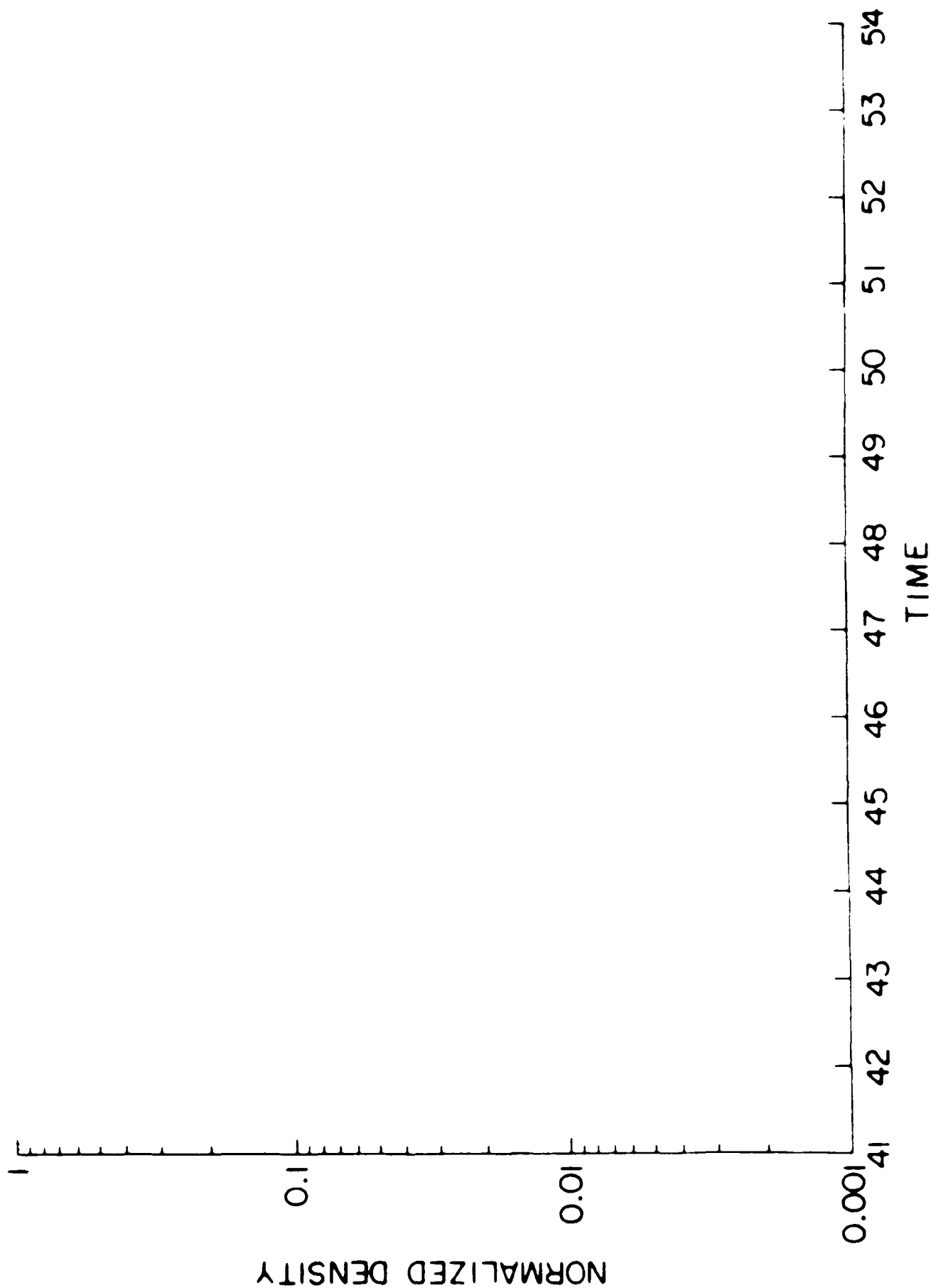
1. A distinct difference in the detailed structure of the wake is observed within 10m of the vehicle as a function of time. Is this difference due to a change in the angle between B and V? (This data was not taken during the free flight phase.)

2. Turbulence observed in the plasma near the wake boundaries also varied with time--is this also tied in with magnetic and electric field variations?

3. The effect of the offset in the center of wake transit number 3 from that which is predicted needs to be investigated--a thorough study of the geometry of the orbiter/PDP with respect to the B field may give insight into the cause of such asymmetries.

By studying the "XPOP roll" data taken with the PDP in the near wake of the orbiter (see poster this session) and doing laboratory experiments which utilize larger objects and higher magnetic fields, new insights about the wake fill process for objects such as shuttle and space stations may be forthcoming.

The table below compares predictions vs. observations for the wake transits.

	PREDICTED	OBSERVED NOISE LEVEL
WT#1	90%	70%
WT#2	75%	23%
WT#3	20%	80%
WT#4	65%	

The relatively good agreement at a characteristic distance greater than one body size leads one to the conclusion that, at least to first order, the physical assumptions present in the neutral approximation are valid for some regions of the wake. The fact however that this theory underestimates the density by an increasingly greater margin close to the vehicle (for both ions and electrons) raises interesting questions about the detailed physics there.

Since the vehicle is large even compared to an ion gyroradius it would seem that currents must somehow flow along field lines and therefore both electric and magnetic fields must play a role in the wake fill process. The orbiter flies at various angles to field lines in its high inclination orbit and current studies are uner way to determine the answers to a number of questions:

REFERENCES

1.   Lilley, John R., Jr., David L. Cooke, Gary A. Jongeward and Ira Katz, "Polar User's Manual," S-CUBED Final Report AFGL-TR-85-0246, submitted to Air Force Geophysics Laboratory, Hanscom Air Force Base, MA, October 1985, ADA173758.

2.   Fournier, G. and D. Pigache, Phys Fluids, 18, 1443, 1975.

3.   Katz, I., D. E. Parks and K. H. Wright, "A Model of the Plasma Wake Generated by a Large Object," IEEE Transactions on Nuclear Science, NS-22(6), 4092, December 1985.

```
      common /sp2/ ifirst
      common /temrat/ temrat
      COMMON/CNTROL/IDIAGS(10),ISTART,INPOT,POTVAL,IOCONG(2),ISPOUT,
*  INPOUT,IGIOUT,IOGRID,IGICAL,INSCI,STHPOT,JDIAGS(9),VLTFIX,
*  PDIE,IEFCOR,KDIAGS(9),LDIAGS(9)
      COMMON /PLOT/IPLOT
      COMMON /INVIRO/ TEMP1,FNORM1,DEN1,TEMP2,FNORM2,DEN2,ECHRG,
*  POWCO,PALPHA,ALPHIN,PCUTL,PCUTH,CENKE,TWPR,GAUCO,ENAUT,DELTA,
*  FNORMH,FNORMI,AMUION,RATIH,EMASS,PMASS,STHVLT
      COMMON/CBUF/BLNGTH,CLNGTH,PADIT(9),PUFF(25000)
      COMMON /A2FILp/ NA2TOT,NA2,FACES(28,200)
      COMMON /GEMGRD/ NPHI,NTHETA,DPHI,DTHETA,DPHINV,DTHINV,NADD
      COMMON/IND19/INDX19(500),NUMDUB,NUMAXG,SKIPS(8)
      COMMON/FREECO/INTF(15),REALF(15),LITF(2,15),CARD(20)
      COMMON/MACH/v(3),TEMP,dmDENS,DEBYE,DEBYDM,DXMESH,DBYDM2,
*  DBYE2I,SQALPH,DXMSH2,PSIM,QBETA
c
c     DUMMY DRIVER FOR NEUSET AND NEUDEN
c
      DIMENSION X(3)
      real dens(3)
c
      CALL SETCHR
      call initio
      call uflset
      call segkil
      CALL OPTDEF
      CALL OPENMS(19,INDX19,500,1)
821       FORMAT(I1)
      NTHETA=180
      NPHI=36
cc
cc       for shuttle
            dxmesh=1.16
cc    print *,' enter dxmesh '
cc    read * , dxmesh
      print *, ' ambient den ',dmdens,' amb tem ',temp,' dx ',dxmesh
            ratih=1.e20
            NADD=1
       kdiags(3)=2
       IEFCOR=litzz('YES ')
801       FORMAT(3I2)
cc        PRINT 800
cc    print *,' enter ratio of electron to ion temperature '
cc    call cardrd(5,'ANY ',*900)
cc    temrat=realf(1)
      print * ,' enter vmach '
      read * , vmach
      print * ,' vmach = ',vmach
      temrat=1.0
      pdebye= 7000.*sqrt(temrat*temp/dmdens)
      print *, ' Debye length = ',pdebye,'  meters '
      print *, ' temperture ratio = ',temrat
          ifirst=1
200       continue
800       FORMAT(' ENTER VELOCITY DIRECTION (3F6.3) ')
```

```
cc       CALL CARDRD(5,'ANY ',*900)
         read * , realf(1),realf(2),realf(3),realf(4)
         print 861 , realf(1),realf(2),realf(3),realf(4)
861      format(' sp2out ',4e15.7)
cc       CALL CARDRD(5,'ANY ',*900)
         read * , realf(1),realf(2),realf(3)
         if (realf(1).lt.-1000) stop
         V(1)=REALF(1)
         V(2)= REALF(2)
         V(3)= REALF(3)
CC          READ (5,840) V(1),V(2)
         PRINT 841,V(1),V(2),v(3)
841      FORMAT(' data ',3F10.2)
CC840    FORMAT(2F6.3)
cc          TH=3.14159*V(1)/180.
cc          PHI=3.14159*V(2)/180.
         vnorm=sqrt(v(1)**2+v(2)**2+v(3)**2)
c        V(1)= VMACH*SIN(TH)*SIN(PHI)
c        V(2)=-VMACH*COS(TH)
c        V(3)= VMACH*SIN(TH)*COS(PHI)
               v(1)=vmach*realf(2)/vnorm
             v(2)=vmach*realf(1)/vnorm
           v(3)=-1.0*vmach*realf(2)/vnorm
         PRINT 842,VMACH,V
842      FORMAT('  VMACH =  ',F10.2,' V= ',3F10.2)
802      FORMAT(3F3.1)
         CALL MRBUF
         CALL BUFSET(1,'VMAP',0,0,0)
            CALL NEUSET
cc
cc     for sp2
cc
            ifirst=0
            print *, 'ifirst zeroed ',ifirst
            PRINT 860,NA2TOT
860         FORMAT(' NA2TOT  = ',I5)
               X(1)=11.5
               X(2)= vnorm/dxmesh+4.0
               X(3)=17.0
cc560    CALL CARDRD(5,'ANY ',*900)
cc       call s3move(realf,x,3)
cc       if (x(1).lt.-1000.) stop
         PRINT 843,X
843      FORMAT(' VIEWER POSITION ',3F10.1)
CC%%            PRINT 857
857         FORMAT(' ENTER NITER (I3)')
cc          READ 858,NITER
858         FORMAT(I3)
cc          PRINT 859 ,NITER
859         FORMAT(' NITER = ',I3)
                     CALL TIMER
cc       DO 100 I = 1,NITER
cc     IEFCOR=litzz('NO  ')
cc     CALL NEUDEN(DENS,X)
cc     DENS1=DENS(1)
cc      PRINT 872,DENS1    ,dens(2), dens(3)
```

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```
872   FORMAT(' DENS=',1PE10.4,' zminth= ',1pe10.4,' xmin= ',1pe12.4)
       IEFCOR=litzz('YES ')
           CALL NEUDEN(DENS,X)
           CALL TIMER
       DENS2=DENS(1)
        PRINT 872,DENS2 , dens(2) ,dens(3)
873    FORMAT('  AFTER CORRECTION, DENS=',1PE10.4)
           print *, 'xdens ',x(2),dens(1)
        print 861 , realf(1),realf(2),realf(3),dens(1)
cc         goto 560
           goto 200
100        CONTINUE
c      PRINT 855,REALF(1),REALF(2),DENS1,DENS2
855    FORMAT('  TH,PHI,DW/O,DW/ =',1P,4(2X,E12.4))
cc         PRINT 856,DENS
856        FORMAT(' DENSITY  =    ',1PE12.6)
cc         PRINT 860,NA2TOT
 900   CONTINUE
           END
```

```
        SUBROUTINE NEUSET  .
C
C       OPEN MSIOFILE AND CALCULATES CONSTANTS FOR NEUTRAL DENSITY
C       SET UP E FIELD CORRECTION TABLE IF DESIRED
CC * CALCULATES DRIFTING MAXWELLIAN WEIGHTS FOR BOTH H+ AND IONS
C
C
C
C             for spacelabII calculations
C
C

        common /sp2/ ifirst
        COMMON /INVIRO/ TEMP1,FNORM1,DEN1,TEMP2,FNORM2,DEN2,ECHRG,
     * POWCO,PALPHA,ALPHIN,PCUTL,PCUTH,CENKE,TWPR,GAUCO,ENAUT,DELTA,
     * FNORMH,FNORMI,AMUION,RATIH,EMASS,PMASS,STHVLT
        COMMON /PLOT/IPLOT
        COMMON/MACH/VMACH(3),TEMP,DENS,DEBYE,DEBYDM,DXMESH,DBYDM2,
     * DBYE2I,SQALPH,DXMSH2,PSIM,QBETA
        COMMON/CNTROL/IDIAGS(10),ISTART,INPOT,POTVAL,IOCONG(2),ISPOUT,
     * INPOUT,IGIOUT,IOGRID,IGICAL,INSCI,STHPOT,JDIAGS(9),VLTFIX,
     * PDIE,IEFCOR,KDIAGS(9),LDIAGS(9)
        COMMON /GEMGRD/ NPHI,NTHETA,DPHI,DTHETA,DPHINV,DTHINV,NADD
        COMMON /GFAC/SVMAC,F(180),FCUM(180),V(3),VROT(3,3)
        COMMON/IND19/INDX19(500),NUMDUB,NUMAXG,SKIPS(8)
        COMMON /A2FILP/ NA2TOT,NA2,FACES(28,200)
        COMMON /THISA2/NVERT,NORM3(3),IVERT(3,8)
       REAL FH(180),FHCUM(180)
      DIMENSION VDUM(3)
       LOGICAL EQUAL
        DATA PI/3.14159/
        TWOPI=PI*2.
        NP=0
        print * ,' ifirst = ',ifirst
C
C       OPENS MS FOR A2 INFORMATION
C
                   IA2FIL=19
CC%%               CALL OPENMS(IA2FIL,INDX19,500,1)
                   IPLOT = 0
CC                 NA2TOT=0
          if (ifirst.eq.1) na2tot=0
                   V(1)=-VMACH(1)
                   V(2)=-VMACH(2)
                   V(3)=-VMACH(3)
CC
CC
CC         skip lots if not first time through
CC             e.g. ifirst ne 1
CC
                   SVMAC=SQRT(V(1)**2+V(2)**2+V(3)**2)
                   SyMAC=SQRT(V(1)**2+V(3)**2)
          if( ifirst .ne. 1 ) goto 100
C         PRINT 850,SVMAC
850       FORMAT(' SVMAC ',1PE12.4)
                   CALL FCAL(NTHETA,F,FCUM,SVMAC)
        SVHMAC=SVMAC*SQRT(1./AMUION)
```

```
                      CALL FCAL(NTHETA,FH,FHCUM,SVHMAC)
CC
CC *COMBINE FION AND FH+ LINEARLY TO FIND F() AND FCUM()
        RION=RATIH/(1+RATIH)
        RH   =1/(1+RATIH)
        DO 25 I = 1,NTHETA
            F(I)=RH*FH(I)+RION*F(I)
            FCUM(I)=RH*FHCUM(I)+RION*FCUM(I)
  25     CONTINUE
                      N2PHI=2*NPHI
C          PRINT 802,V
802        FORMAT(' VELOCITY ',4F10.3)
C
C      CONSTRUCT ROTATION MATRIX
C
100        continue
                      VROT(1,1)=V(3)
                      VROT(1,2)=0.
                      VROT(1,3)=-V(1)
                      VROT(2,1)=-V(1)*V(2)
                      VROT(2,2)=V(1)**2+V(3)**2
                      VROT(2,3)=-V(2)*V(3)
                      VROT(3,1)=V(1)
                      VROT(3,2)=V(2)
                      VROT(3,3)=V(3)
                      if (svmac .eq. 0. ) goto 300
                      if (symac .le. 1.e-10) vrot(1,1)=1.
                      if (symac .le. 1.e-10) vrot(2,3)=-v(2)
           DO 50 I=1,3
C
C          LOOP  FOR NORMALIZATION OF MATRIX ROWS
C
        DO 45 J=1,3
                  VDUM(J)=VROT(I,J)
45      CONTINUE
                      CALL NORM3V(VDUM)
        DO 48 J=1,3
                  VROT(I,J)=VDUM(J)
48      CONTINUE
50         CONTINUE
C                      PRINT 804,VROT
           goto 310
c    got here if SVMAC = 0
300    continue
        call s3zero(vrot,9)
        vrot(1,1)=1.
        vrot(2,2)=1.
        vrot(3,3)=1.
        svmac =0.0001
        print * ,' ****  warning   - MACH vector zero !!! *****'
310        continue
cc
cc        for spacelab II
cc
                      if (ifirst .ne. 1 ) return
                      CALL A2LOAD
```

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```
804          FORMAT(' VROT ',/,(3F10.4))
CC
CC *SET UP E FIELD CORRECTION TABLES
      IF (EQUAL(IEFCOR,'YES ')) CALL SETEFC
CC
          call a2prep
          RETURN
          END
```

APPENDIX B

Wake Density Calculations for Spacelab II

density 1.+05 cm**(-3) , electron temp = .2 eV, orbiter velocity = Mach 7.

TIME	X	Y	Z	DENSITY
213001137	6	0	4	0.2350831E-02
213001139	6	0	4	0.2350831E-02
213001141	6	0	4	0.2350831E-02
213001143	7	0	4	0.2725119E-02
213001145	7	0	4	0.2725119E-02
213001147	7	0	4	0.2725119E-02
213001149	7	0	4	0.2725119E-02
213001151	7	0	4	0.2725119E-02
213001153	7	0	4	0.2725119E-02
213001155	7	0	4	0.2725119E-02
213001157	8	0	4	0.2627795E-02
213001159	8	0	3	0.8230590E-03
213001201	8	0	3	0.8230590E-03
213001203	8	0	3	0.8230590E-03
213001205	9	0	3	0.1156399E-02
213001207	9	0	3	0.1156399E-02
213001209	9	0	3	0.1156399E-02
213001211	9	0	3	0.1156399E-02
213001213	10	0	3	0.1602969E-02
213001215	10	0	3	0.1602969E-02
213001217	10	0	3	0.1602969E-02
213001219	11	0	3	0.2482565E-02
213001221	11	0	3	0.2482565E-02
213001223	11	0	3	0.2482565E-02
213001225	11	0	3	0.2482565E-02
213001227	12	0	3	0.3467855E-02
213001229	12	0	3	0.3467855E-02
213001231	12	0	2	0.1994643E-02
213001233	12	0	2	0.1994643E-02
213001235	13	0	2	0.2990971E-02
213001237	13	0	2	0.2990971E-02
213001239	13	0	2	0.2990971E-02
213001241	14	0	2	0.4452195E-02
213001243	14	0	2	0.4452195E-02
213001245	14	0	2	0.4452195E-02
213001247	14	0	2	0.4452195E-02
213001249	15	0	2	0.6373885E-02
213001251	15	0	2	0.6373885E-02
213001253	15	0	2	0.6373885E-02
213001255	15	0	2	0.6373885E-02
213001257	16	0	2	0.8450774E-02
213001259	16	0	2	0.8450774E-02
213001301	16	0	1	0.7191635E-02
213001303	17	0	1	0.9897092E-02
213001305	17	0	1	0.9897092E-02
213001307	17	0	1	0.9897092E-02
213001309	17	0	1	0.9897092E-02
213001311	18	0	1	0.1275662E-01
213001313	18	0	1	0.1275662E-01

213001315	18	0	1	0.1275662E-01
213001317	18	0	1	0.1275662E-01
213001319	19	0	1	0.1576493E-01
213001321	19	0	1	0.1576493E-01
213001323	19	0	1	0.1576493E-01
213001325	20	0	1	0.1937108E-01
213001327	20	0	1	0.1937108E-01
213001329	20	0	1	0.1937108E-01
213001331	20	0	1	0.1937108E-01
213001333	21	0	0	0.2254866E-01
213001335	21	0	0	0.2254866E-01
213001337	21	0	0	0.2254866E-01
213001339	21	0	0	0.2254866E-01
213001341	22	0	0	0.2574448E-01
213001343	22	0	0	0.2574448E-01
213001345	22	0	0	0.2574448E-01
213001347	23	0	0	0.3110984E-01
213001349	23	0	0	0.3110984E-01
213001351	23	0	0	0.3110984E-01
213001353	23	0	0	0.3110984E-01
213001355	24	0	0	0.3538880E-01
213001357	24	0	0	0.3538880E-01
213001359	24	0	0	0.3538880E-01
213001401	24	0	0	0.3538880E-01
213001403	25	0	0	0.3834940E-01
213001405	25	0	-1	0.3908321E-01
213001407	25	0	-1	0.3908321E-01
213001409	26	0	-1	0.4475905E-01
213001411	26	0	-1	0.4475905E-01
213001413	26	0	-1	0.4475905E-01
213001415	26	0	-1	0.4475905E-01
213001417	27	0	-1	0.4953753E-01
213001419	27	0	-1	0.4953753E-01
213001421	27	0	-1	0.4953753E-01
213001423	27	0	-1	0.4953753E-01
213001425	28	0	-1	0.5492393E-01
213001427	28	0	-1	0.5492393E-01
213001429	28	0	-1	0.5492393E-01
213001431	29	0	-1	0.5984487E-01
213001433	29	0	-1	0.5984487E-01
213001435	29	0	-2	0.5552398E-01
213001437	29	0	-2	0.5552398E-01
213001439	30	0	-2	0.6185557E-01
213001441	30	0	-2	0.6185557E-01
213001443	30	0	-2	0.6185557E-01
213001445	30	0	-2	0.6185557E-01
213001447	31	0	-2	0.6399965E-01
213001449	31	0	-2	0.6399965E-01
213001451	31	0	-2	0.6399965E-01
213001453	32	0	-2	0.7393028E-01
213001455	32	0	-2	0.7393028E-01
213001457	32	0	-2	0.7393028E-01
213001459	32	0	-2	0.7393028E-01
213001501	33	0	-2	0.8032030E-01
213001503	33	0	-2	0.8032030E-01
213001505	33	0	-2	0.8032030E-01

213001507	33	0	-3	0.7737784E-01
213001509	34	0	-3	0.8404999E-01
213001511	34	0	-3	0.8404999E-01
213001513	34	0	-3	0.8404999E-01
213001515	35	0	-3	0.8866966E-01
213001517	35	0	-3	0.8866966E-01
213001519	35	0	-3	0.8866966E-01
213001521	35	0	-3	0.8866966E-01
213001523	36	0	-3	0.9463195E-01
213001525	36	0	-3	0.9463195E-01
213001527	36	0	-3	0.9463195E-01
213001529	36	0	-3	0.9463195E-01
213001531	37	0	-3	0.9847429E-01
213001533	37	0	-3	0.9847429E-01
213001535	37	0	-3	0.9847429E-01
213001537	38	0	-4	0.1107362E+00
213001539	38	0	-4	0.1107362E+00
213001541	38	0	-4	0.1107362E+00
213001543	38	0	-4	0.1107362E+00
213001545	39	0	-4	0.1166603E+00
213001547	39	0	-4	0.1166603E+00
213001549	39	0	-4	0.1166603E+00
213001551	39	0	-4	0.1166603E+00
213001553	40	0	-4	0.1177205E+00
213001555	40	0	-4	0.1177205E+00
213001557	40	0	-4	0.1177205E+00
213001559	41	0	-4	0.1283359E+00
213001601	41	0	-4	0.1283359E+00
213001603	41	0	-4	0.1283359E+00
213001605	41	0	-4	0.1283359E+00
213001607	42	0	-4	0.1375081E+00
213001609	42	0	-5	0.1311812E+00
213001611	42	0	-5	0.1311812E+00
213001613	42	0	-5	0.1311812E+00
213001615	43	0	-5	0.1401492E+00
213001617	43	0	-5	0.1401492E+00
213001619	43	0	-5	0.1401492E+00
213001621	44	0	-5	0.1489119E+00
213001623	44	0	-5	0.1489119E+00
213001625	44	0	-5	0.1489119E+00
213001627	44	0	-5	0.1489119E+00
213001629	45	0	-5	0.1515556E+00
213001631	45	0	-5	0.1515556E+00
213001633	45	0	-5	0.1515556E+00
213001635	45	0	-5	0.1515556E+00
213001637	46	0	-5	0.1556162E+00
213001639	46	0	-6	0.1674534E+00
213001641	46	0	-6	0.1674534E+00
213001643	47	0	-6	0.1786492E+00
213001645	47	0	-6	0.1786492E+00
213001647	47	0	-6	0.1786492E+00
213001649	47	0	-6	0.1786492E+00
213001651	48	0	-6	0.1873786E+00
213001653	48	0	-6	0.1873786E+00
213001655	48	0	-6	0.1873786E+00
213001657	48	0	-6	0.1873786E+00

213001659	49	0	-6	0.1902112E+00
213001701	49	0	-6	0.1902112E+00
213001703	49	0	-6	0.1902112E+00
213001705	50	0	-6	0.1971090E+00
213001707	50	0	-6	0.1971090E+00
213001709	50	0	-6	0.1971090E+00
213001711	50	0	-7	0.2013936E+00
213001713	51	0	-7	0.2131268E+00
213001715	51	0	-7	0.2131268E+00
213001717	51	0	-7	0.2131268E+00
213001719	51	0	-7	0.2131268E+00
213001721	52	0	-7	0.2154970E+00
213001723	52	0	-7	0.2154970E+00
213001725	52	0	-7	0.2154970E+00
213001727	53	0	-7	0.2283257E+00
213001729	53	0	-7	0.2283257E+00
213001731	53	0	-7	0.2283257E+00
213001733	53	0	-7	0.2283257E+00
213001735	54	0	-7	0.2323008E+00
213001737	54	0	-7	0.2323008E+00
213001739	54	0	-7	0.2323008E+00
213001741	54	0	-8	0.2389755E+00
213001743	55	0	-8	0.2465462E+00
213001745	55	0	-8	0.2465462E+00
213001747	55	0	-8	0.2465462E+00
213001749	56	0	-8	0.2551566E+00
213001751	56	0	-8	0.2551566E+00
213001753	56	0	-8	0.2551566E+00
213001757	56	0	-8	0.2551566E+00
213001759	57	0	-8	0.2589230E+00
213001803	57	0	-8	0.2589230E+00
213001807	58	0	-8	0.2723931E+00
213001811	58	0	-8	0.2723931E+00
213001815	59	0	-8	0.2893173E+00
213001819	59	0	-8	0.2893173E+00
213001823	60	0	-8	0.2976301E+00
213001827	60	0	-8	0.2976301E+00
213001831	61	0	-8	0.3161182E+00
213001835	61	0	-8	0.3161182E+00
213001839	62	0	-8	0.3181625E+00
213001843	62	0	-8	0.3181625E+00
213001845	63	0	-8	0.3181625E+00
213001849	63	0	-8	0.3181625E+00
213001853	64	0	-8	0.3233076E+00
213001857	64	0	-8	0.3233076E+00
213001901	65	0	-8	0.3326341E+00
213001905	65	0	-8	0.3326341E+00
213001909	66	0	-8	0.3493491E+00
213001913	66	0	-8	0.3493491E+00
213001917	67	0	-8	0.3671233E+00
213001921	67	0	-8	0.3671233E+00
213001925	68	0	-8	0.3896303E+00
213001929	68	0	-8	0.3896303E+00
213001931	69	0	-8	0.4010395E+00
213001935	69	0	-8	0.4010395E+00
213001939	70	0	-8	0.4045410E+00

213001943	70	0	-8	0.4045410E+00
213001947	71	0	-8	0.4091223E+00
213001951	71	0	-8	0.4091223E+00
213001955	72	0	-8	0.4148921E+00
213001959	72	0	-8	0.4148921E+00
213002003	73	0	-8	0.4208629E+00
213002007	73	0	-8	0.4208629E+00
213002011	74	0	-8	0.4267142E+00
213002015	74	0	-8	0.4267142E+00
213002019	75	0	-8	0.4339436E+00
213002021	75	0	-8	0.4339436E+00
213002025	76	0	-8	0.4585950E+00
213002029	76	0	-8	0.4585950E+00
213002033	77	0	-8	0.4807674E+00
213002037	77	0	-8	0.4807674E+00
213002041	78	0	-8	0.4947918E+00
213002045	78	0	-9	0.5003049E+00
213002049	79	0	-9	0.5213828E+00
213002053	79	0	-9	0.5213828E+00
213002057	80	0	-9	0.5439435E+00
213002101	80	-1	-9	0.5283011E+00
213002105	81	-1	-9	0.5338315E+00
213002107	81	-1	-9	0.5338315E+00
213002111	82	-1	-9	0.5503067E+00
213002115	82	-1	-9	0.5503067E+00
213002119	83	-1	-9	0.5647592E+00
213002123	83	-1	-9	0.5647592E+00
213002127	84	-1	-9	0.5768880E+00
213002131	84	-1	-9	0.5768880E+00
213002135	85	-1	-9	0.5853500E+00
213002139	85	-1	-9	0.5853500E+00
213002143	86	-1	-10	0.6241103E+00
213002147	86	-1	-10	0.6241103E+00
213002151	87	-1	-10	0.6293029E+00
213002155	87	-1	-10	0.6293029E+00
213002157	88	-1	-10	0.6321283E+00
213002201	88	-1	-10	0.6321283E+00
213002205	89	-1	-10	0.6383411E+00
213002209	89	-1	-10	0.6383411E+00
213002213	90	-1	-11	0.6558335E+00
213002217	90	-1	-11	0.6558335E+00
213002221	91	-1	-11	0.6580412E+00
213002225	91	-1	-11	0.6580412E+00
213002229	91	-1	-11	0.6580412E+00
213002233	91	-1	-12	0.6882806E+00
213002237	91	-1	-12	0.6882806E+00
213002241	91	-1	-12	0.6882806E+00
213002243	91	-1	-12	0.6882806E+00
213002247	91	-1	-12	0.6882806E+00
213002251	91	-1	-13	0.6976537E+00
213002255	90	-1	-13	0.6976537E+00
213002259	90	-1	-13	0.6976537E+00
213002303	90	-1	-13	0.6976537E+00
213002307	90	-1	-13	0.6976537E+00
213002311	90	-1	-13	0.6976537E+00
213002315	89	-1	-14	0.7071677E+00

213002319	89	-1	-14	0.7071677E+00
213002323	89	-1	-14	0.7071677E+00
213002327	89	0	-14	0.6950943E+00
213002331	88	0	-14	0.6950943E+00
213002333	88	0	-14	0.6950943E+00
213002337	88	0	-15	0.7112825E+00
213002341	88	0	-15	0.7112825E+00
213002347	88	0	-15	0.7112825E+00
213002351	87	0	-15	0.7112825E+00
213002353	87	0	-15	0.7112825E+00
213002357	87	0	-15	0.7112825E+00
213002401	87	0	-15	0.7112825E+00
213002405	87	0	-15	0.7112825E+00
213002409	86	0	-15	0.7001360E+00
213002413	86	0	-15	0.7001360E+00
213002417	86	0	-15	0.7001360E+00
213002419	86	0	-15	0.7001360E+00
213002423	86	0	-15	0.7001360E+00
213002427	86	0	-15	0.7001360E+00
213002431	85	0	-15	0.6983798E+00
213002435	85	0	-15	0.6983798E+00
213002439	85	0	-15	0.6983798E+00
213002443	85	0	-15	0.6983798E+00
213002447	85	0	-14	0.6780472E+00
213002451	85	0	-14	0.6780472E+00
213002455	85	0	-14	0.6780472E+00
213002459	85	0	-14	0.6780472E+00
213002503	85	0	-14	0.6780472E+00
213002507	85	0	-14	0.6780472E+00
213002509	85	0	-14	0.6780472E+00
213002513	85	0	-13	0.6733897E+00
213002517	85	0	-13	0.6733897E+00
213002521	85	0	-13	0.6733897E+00
213002525	85	0	-13	0.6733897E+00
213002529	85	0	-13	0.6733897E+00
213002533	85	0	-13	0.6733897E+00
213002537	85	0	-13	0.6733897E+00
213002541	85	0	-13	0.6733897E+00
213002545	85	0	-12	0.6388428E+00
213002549	85	0	-12	0.6388428E+00
213002553	85	0	-12	0.6388428E+00
213002555	85	0	-12	0.6388428E+00
213002559	85	0	-12	0.6388428E+00
213002603	85	0	-11	0.6238471E+00
213002607	85	0	-11	0.6238471E+00
213002611	85	0	-11	0.6238471E+00
213002615	85	0	-11	0.6238471E+00
213002619	85	0	-11	0.6238471E+00
213002623	85	0	-10	0.6155251E+00
213002627	85	0	-10	0.6155251E+00
213002631	85	0	-10	0.6155251E+00
213002635	85	0	-9	0.5939649E+00
213002639	85	0	-9	0.5939649E+00
213002643	85	0	-9	0.5939649E+00
213002645	85	0	-9	0.5939649E+00
213002649	85	0	-8	0.5582204E+00

213002653	85	0	-8	0.5582204E+00
213002657	85	0	-8	0.5582204E+00
213002701	85	0	-7	0.5570427E+00
213002705	85	0	-7	0.5570427E+00
213002709	85	0	-7	0.5570427E+00
213002713	85	0	-6	0.5425889E+00
213002717	85	0	-6	0.5425889E+00
213002721	86	0	-6	0.5594578E+00
213002725	86	0	-6	0.5594578E+00
213002729	86	0	-5	0.5520192E+00
213002731	86	0	-5	0.5520192E+00
213002735	86	0	-4	0.5659146E+00
213002739	86	0	-4	0.5659146E+00
213002743	86	0	-4	0.5659146E+00
213002747	86	0	-3	0.5415276E+00
213002751	86	0	-3	0.5415276E+00
213002755	86	0	-3	0.5415276E+00
213002759	86	0	-2	0.5490204E+00
213002803	87	0	-2	0.5649581E+00
213002807	87	0	-2	0.5649581E+00
213002811	87	0	-1	0.5674889E+00
213002815	87	0	-1	0.5674889E+00
213002819	87	0	-1	0.5674889E+00
213002821	87	0	0	0.5563003E+00
213002825	87	0	0	0.5563003E+00
213002829	87	0	0	0.5563003E+00
213002833	87	0	1	0.5984169E+00
213002837	88	0	1	0.6217597E+00
213002841	88	0	1	0.6217597E+00
213002845	88	0	2	0.6209918E+00
213002849	88	0	2	0.6209918E+00
213002853	88	0	2	0.6209918E+00
213002857	88	0	2	0.6209918E+00
213002901	88	0	3	0.6221852E+00
213002905	89	0	3	0.6445533E+00
213002907	89	0	3	0.6445533E+00
213002911	89	0	3	0.6445533E+00
213002915	89	0	3	0.6445533E+00
213002919	89	0	3	0.6445533E+00
213002923	89	0	3	0.6445533E+00
213002927	89	0	4	0.6482403E+00
213002931	90	0	4	0.6520630E+00
213002935	90	0	4	0.6520630E+00
213002939	90	0	4	0.6520630E+00
213002943	90	0	4	0.6520630E+00
213002947	90	0	4	0.6520630E+00
213002951	90	0	4	0.6520630E+00
213002955	91	0	4	0.6558962E+00
213002957	91	0	4	0.6558962E+00
213003001	91	0	4	0.6558962E+00
213003005	91	0	4	0.6558962E+00
213003009	91	0	3	0.6445533E+00
213003013	92	0	3	0.6445533E+00
213003017	92	0	3	0.6445533E+00
213003021	92	0	3	0.6445533E+00
213003025	92	0	3	0.6445533E+00

213003029	92	0	3	0.6445533E+00
213003033	93	0	3	0.6591014E+00
213003037	93	0	3	0.6591014E+00
213003041	93	0	3	0.6591014E+00
213003043	93	0	3	0.6591014E+00
213003047	93	0	2	0.6730165E+00
213003051	94	0	2	0.6730165E+00
213003055	94	0	2	0.6730165E+00
213003059	94	0	2	0.6730165E+00
213003103	94	0	2	0.6730165E+00
213003107	94	0	2	0.6730165E+00
213003111	94	0	2	0.6730165E+00
213003115	95	0	2	0.6730165E+00
213003119	95	0	2	0.6730165E+00
213003123	95	0	1	0.6757894E+00
213003127	95	0	1	0.6757894E+00
213003131	95	0	1	0.6757894E+00
213003133	95	0	1	0.6757894E+00
213003137	95	0	1	0.6757894E+00
213003141	95	0	1	0.6757894E+00
213003145	95	0	1	0.6757894E+00
213003149	95	0	1	0.6757894E+00
213003153	95	0	0	0.6502571E+00
213003157	95	0	0	0.6502571E+00
213003201	95	0	0	0.6502571E+00
213003205	95	0	0	0.6502571E+00
213003209	95	0	0	0.6502571E+00
213003213	95	0	0	0.6502571E+00
213003217	95	0	-1	0.6554419E+00
213003219	95	0	-1	0.6554419E+00
213003223	95	0	-1	0.6554419E+00
213003227	95	0	-1	0.6554419E+00
213003231	95	0	-1	0.6554419E+00
213003235	95	0	-1	0.6554419E+00
213003239	95	0	-2	0.6364380E+00
213003243	95	0	-2	0.6364380E+00
213003247	95	0	-2	0.6364380E+00
213003251	95	0	-2	0.6364380E+00
213003255	95	0	-2	0.6364380E+00
213003259	94	0	-2	0.6364380E+00
213003303	94	0	-3	0.6374385E+00
213003307	94	0	-3	0.6374385E+00
213003309	94	0	-3	0.6374385E+00
213003313	94	0	-3	0.6374385E+00
213003317	94	0	-3	0.6374385E+00
213003321	94	0	-3	0.6374385E+00
213003325	94	0	-3	0.6374385E+00
213003329	94	0	-4	0.6506664E+00
213003333	94	0	-4	0.6506664E+00
213003337	94	0	-4	0.6506664E+00
213003341	94	0	-4	0.6506664E+00
213003345	94	0	-4	0.6506664E+00
213003349	94	0	-4	0.6506664E+00
213003353	94	0	-4	0.6506664E+00
213003355	94	0	-4	0.6506664E+00
213003359	94	0	-5	0.6336390E+00

213003403	94	0	-5	0.6336390E+00
213003407	94	0	-5	0.6336390E+00
213003411	93	0	-5	0.6274990E+00
213003415	93	0	-5	0.6274990E+00
213003419	93	0	-5	0.6274990E+00
213003423	93	0	-5	0.6274990E+00
213003427	93	0	-5	0.6274990E+00
213003431	93	0	-5	0.6274990E+00
213003435	93	0	-6	0.6431908E+00
213003439	93	0	-6	0.6431908E+00
213003443	93	0	-6	0.6431908E+00
213003445	93	0	-6	0.6431908E+00
213003449	93	0	-6	0.6431908E+00
213003453	93	0	-6	0.6431908E+00
213003457	93	0	-6	0.6431908E+00
213003501	92	0	-6	0.6274924E+00
213003505	92	0	-7	0.6344962E+00
213003509	92	0	-7	0.6344962E+00
213003513	92	0	-7	0.6344962E+00
213003517	92	0	-7	0.6344962E+00
213003521	92	0	-7	0.6344962E+00
213003525	92	0	-7	0.6344962E+00
213003529	92	0	-7	0.6344962E+00
213003531	92	0	-7	0.6344962E+00
213003535	92	0	-7	0.6344962E+00
213003539	91	0	-8	0.6256309E+00
213003543	91	0	-8	0.6256309E+00
213003547	91	0	-8	0.6256309E+00
213003551	91	0	-8	0.6256309E+00
213003555	91	0	-8	0.6256309E+00
213003559	91	0	-8	0.6256309E+00
213003603	91	0	-8	0.6256309E+00
213003607	91	0	-8	0.6256309E+00
213003611	90	0	-8	0.6202710E+00
213003615	90	0	-8	0.6202710E+00
213003619	90	0	-9	0.6308221E+00
213003621	90	0	-8	0.6202710E+00
213003625	90	-1	-8	0.6283497E+00
213003629	90	-1	-8	0.6283497E+00
213003633	90	-1	-8	0.6283497E+00
213003637	90	-1	-8	0.6283497E+00
213003641	90	-1	-8	0.6283497E+00
213003645	90	-1	-8	0.6283497E+00
213003649	89	-1	-8	0.6144339E+00
213003653	89	-1	-8	0.6144339E+00
213003657	89	-1	-8	0.6144339E+00
213003701	89	-1	-8	0.6144339E+00
213003705	89	-1	-8	0.6144339E+00
213003707	89	-1	-8	0.6144339E+00
213003711	89	-1	-8	0.6144339E+00
213003715	89	-1	-8	0.6144339E+00
213003719	89	-1	-8	0.6144339E+00
213003723	89	0	-8	0.5931140E+00
213003727	89	0	-8	0.5931140E+00
213003731	88	0	-8	0.5931140E+00
213003735	88	0	-7	0.5843099E+00

213003739	88	0	-7	0.5843099E+00
213003743	88	0	-7	0.5843099E+00
213003747	88	0	-7	0.5843099E+00
213003751	88	0	-7	0.5843099E+00
213003755	88	0	-7	0.5843099E+00
213003757	88	0	-7	0.5843099E+00
213003801	88	0	-7	0.5843099E+00
213003805	87	0	-7	0.5768155E+00
213003809	87	0	-7	0.5768155E+00
213003813	87	0	-6	0.5671975E+00
213003817	87	0	-6	0.5671975E+00
213003821	87	0	-6	0.5671975E+00
213003825	87	0	-6	0.5671975E+00
213003829	87	0	-6	0.5671975E+00
213003833	87	0	-6	0.5671975E+00
213003837	87	0	-6	0.5671975E+00
213003841	86	0	-6	0.5594578E+00
213003843	86	0	-6	0.5594578E+00
213003847	86	0	-5	0.5520192E+00
213003851	86	0	-5	0.5520192E+00
213003855	86	0	-5	0.5520192E+00
213003859	86	0	-5	0.5520192E+00
213003903	86	0	-5	0.5520192E+00
213003907	86	0	-5	0.5520192E+00
213003911	86	0	-5	0.5520192E+00
213003915	86	0	-5	0.5520192E+00
213003919	86	0	-4	0.5659146E+00
213003923	86	0	-4	0.5659146E+00
213003927	86	0	-4	0.5659146E+00
213003931	86	0	-4	0.5659146E+00
213003933	86	0	-4	0.5659146E+00
213003937	86	0	-4	0.5659146E+00
213003941	86	0	-4	0.5659146E+00
213003945	85	0	-4	0.5449496E+00
213003949	85	0	-3	0.5415276E+00
213003953	85	0	-3	0.5415276E+00
213003957	85	0	-3	0.5415276E+C0
213004001	85	0	-3	0.5415276E+00
213004005	85	1	-3	0.5277819E+00
213004009	85	1	-3	0.5277819E+00
213004013	85	1	-3	0.5277819E+00
213004017	85	1	-2	0.5588903E+00
213004019	85	1	-2	0.5588903E+00
213004023	85	1	-2	0.5588903E+00
213004027	85	1	-2	0.5588903E+00
213004031	85	1	-2	0.5588903E+00
213004035	85	1	-2	0.5588903E+00
213004039	85	1	-2	0.5588903E+00
213004043	85	1	-1	0.5614309E+00
213004047	85	1	-1	0.5614309E+00
213004051	85	1	-1	0.5614309E+00
213004055	85	1	-1	0.5614309E+00
213004059	85	1	-1	0.5614309E+00
213004103	85	1	-1	0.5614309E+00
213004107	85	1	0	0.5483773E+00
213004109	85	1	0	0.5483773E+00

213004113	85	1	0	0.5483773E+00
213004117	86	1	0	0.5522032E+00
213004121	86	1	0	0.5522032E+00
213004125	86	1	0	0.5522032E+00
213004129	86	1	0	0.5522032E+00
213004133	86	1	1	0.5907665E+00
213004137	86	1	1	0.5907665E+00
213004141	86	1	1	0.5907665E+00
213004145	86	1	1	0.5907665E+00
213004149	86	1	1	0.5907665E+00
213004153	86	1	1	0.5907665E+00
213004155	87	1	1	0.6122539E+00
213004159	87	1	2	0.6259565E+00
213004203	87	1	2	0.6259565E+00
213004207	87	1	2	0.6259565E+00
213004211	87	1	2	0.6259565E+00
213004215	87	1	2	0.6259565E+00
213004219	87	1	2	0.6259565E+00
213004223	87	1	2	0.6259565E+00
213004227	87	2	2	0.6339533E+00
213004231	88	2	3	0.6453853E+00
213004235	88	2	3	0.6453853E+00
213004239	88	2	3	0.6453853E+00
213004243	88	2	3	0.6453853E+00
213004245	88	2	3	0.6453853E+00
213004249	88	2	3	0.6453853E+00
213004253	88	2	3	0.6453853E+00
213004257	88	2	3	0.6453853E+00
213004301	88	2	3	0.6453853E+00
213004305	88	2	4	0.6578714E+00
213004309	89	2	4	0.6609777E+00
213004313	89	2	4	0.6609777E+00
213004317	89	2	4	0.6609777E+00
213004321	89	2	4	0.6609777E+00
213004325	89	2	4	0.6609777E+00
213004329	89	2	4	0.6609777E+00
213004331	89	2	4	0.6609777E+00
213004335	89	2	4	0.6609777E+00
213004339	89	2	4	0.6609777E+00
213004343	89	2	4	0.6609777E+00
213004347	90	2	4	0.6694460E+00
213004351	90	2	4	0.6694460E+00
213004355	90	2	5	0.6935964E+00
213004359	90	2	5	0.6935964E+00
213004403	90	2	5	0.6935964E+00
213004407	90	2	5	0.6935964E+00
213004411	90	2	5	0.6935964E+00
213004415	90	2	5	0.6935964E+00
213004419	90	2	5	0.6935964E+00
213004421	90	2	5	0.6935964E+00
213004425	91	2	5	0.6946430E+00
213004429	91	2	5	0.6946430E+00
213004433	91	2	5	0.6946430E+00
213004437	91	2	5	0.6946430E+00
213004441	91	2	5	0.6946430E+00
213004445	91	2	5	0.6946430E+00

213004449	91	2	5	0.6946430E+00
213004453	91	2	5	0.6946430E+00
213004457	91	2	5	0.6946430E+00
213004501	91	3	5	0.6963624E+00
213004505	92	3	5	0.6975055E+00
213004507	92	3	5	0.6975055E+00
213004511	92	3	5	0.6975055E+00
213004515	92	3	5	0.6975055E+00
213004519	92	3	6	0.7103031E+00
213004523	92	3	6	0.7103031E+00
213004527	92	3	6	0.7103031E+00
213004531	92	3	6	0.7103031E+00
213004535	92	3	6	0.7103031E+00
213004539	92	3	6	0.7103031E+00
213004543	92	3	6	0.7103031E+00
213004547	93	3	5	0.7055585E+00
213004551	93	3	5	0.7055585E+00
213004555	93	3	5	0.7055585E+00
213004557	93	3	5	0.7055585E+00
213004601	93	3	5	0.7055585E+00
213004605	93	3	5	0.7055585E+00
213004609	93	3	5	0.7055585E+00
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213011423	89	5	-15	0.7204249E+00
213011427	88	5	-15	0.7204249E+00
213011431	88	5	-15	0.7204249E+00
213011435	88	5	-15	0.7204249E+00
213011439	88	5	-14	0.7112283E+00
213011443	88	5	-14	0.7112283E+00
213011445	88	5	-14	0.7112283E+00
213011449	88	5	-14	0.7112283E+00
213011453	88	5	-14	0.7112283E+00
213011457	88	5	-14	0.7112283E+00
213011501	88	5	-14	0.7112283E+00
213011505	88	5	-14	0.7112283E+00
213011509	88	5	-14	0.7112283E+00
213011513	88	5	-13	0.7031608E+00
213011517	88	5	-13	0.7031608E+00
213011521	88	5	-13	0.7031608E+00
213011525	88	5	-13	0.7031608E+00
213011529	88	5	-13	0.7031608E+00
213011531	88	5	-13	0.7031608E+00
213011535	88	5	-12	0.6884728E+00
213011539	88	5	-12	0.6884728E+00
213011543	88	5	-12	0.6884728E+00
213011547	88	5	-12	0.6884728E+00
213011551	88	5	-12	0.6884728E+00
213011555	88	5	-11	0.6887667E+00
213011559	88	5	-11	0.6887667E+00
213011603	88	5	-11	0.6887667E+00
213011607	88	4	-11	0.6760241E+00
213011611	88	4	-11	0.6760241E+00
213011615	88	4	-10	0.6725175E+00
213011619	88	4	-10	0.6725175E+00
213011621	88	4	-10	0.6725175E+00
213011625	88	4	-10	0.6725175E+00
213011629	88	4	-9	0.6409351E+00
213011633	88	4	-9	0.6409351E+00
213011637	88	4	-9	0.6409351E+00
213011641	88	4	-9	0.6409351E+00
213011645	88	4	-9	0.6409351E+00
213011649	88	4	-8	0.6349040E+00
213011653	88	4	-8	0.6349040E+00
213011657	88	4	-8	0.6349040E+00
213011701	88	4	-8	C.6349040E+00
213011705	88	4	-7	0.6262274E+00
213011707	88	3	-7	0.6214266E+00
213011711	89	3	-7	0.6367082E+00
213011715	89	3	-7	0.6367082E+00

213011719	89	3	-7	0.6367082E+00
213011723	89	3	-6	0.6191359E+00
213011727	89	3	-6	0.6191359E+00
213011731	89	3	-6	0.6191359E+00
213011735	89	3	-6	0.6191359E+00
213011739	89	3	-6	0.6191359E+00
213011743	89	3	-5	0.6037613E+00
213011747	89	3	-5	0.6037613E+00
213011751	89	3	-5	0.6037613E+00
213011755	89	3	-5	0.6037613E+00
213011757	89	3	-4	0.5997888E+00
213011801	89	3	-4	0.5997888E+00
213011805	89	3	-4	0.5997888E+00
213011809	89	3	-4	0.5997888E+00
213011813	89	3	-4	0.5997888E+00
213011817	89	3	-3	0.6053688E+00
213011821	89	2	-3	0.6089079E+00
213011825	90	2	-3	0.6132848E+00
213011829	90	2	-3	0.6132848E+00
213011833	90	2	-3	0.6132848E+00
213011837	90	2	-2	0.6103953E+00
213011841	90	2	-2	0.6103953E+00
213011843	90	2	-2	0.6103953E+00
213011847	90	2	-2	0.6103953E+00
213011851	90	2	-2	0.6103953E+00
213011855	90	2	-1	0.6236512E+00
213011859	90	2	-1	0.6236512E+00
213011903	90	2	-1	0.6236512E+00
213011907	90	2	-1	0.6236512E+00
213011911	91	2	-1	0.6266810E+00
213011915	91	2	0	0.6482795E+00
213011919	91	2	0	0.6482795E+00
213011923	91	2	0	0.6482795E+00
213011927	91	2	0	0.6482795E+00
213011931	91	2	0	0.6482795E+00
213011933	91	1	1	0.6412340E+00
213011937	91	1	1	0.6412340E+00
213011941	91	1	1	0.6412340E+00
213011947	92	1	1	0.6491109E+00
213011951	92	1	2	0.6600508E+00
213011957	92	1	2	0.6600508E+00
213012001	92	1	2	0.6600508E+00
213012005	92	1	2	0.6600508E+00
213012009	92	1	2	0.6600508E+00
213012013	92	1	3	0.6770108E+00
213012017	93	1	3	0.6799343E+00
213012019	93	1	3	0.6799343E+00
213012023	93	1	3	0.6799343E+00
213012027	93	1	3	0.6799343E+00
213012031	93	1	3	0.6799343E+00
213012035	93	1	4	0.6831358E+00
213012039	93	1	4	0.6831358E+00
213012043	94	1	4	0.6888083E+00
213012047	94	0	4	0.6925412E+00
213012051	94	0	4	0.6925412E+00
213012055	94	0	4	0.6925412E+00

213012059	94	0	5	0.7012535E+00
213012103	94	0	5	0.7012535E+00
213012107	94	0	5	0.7012535E+00
213012109	95	0	5	0.7037043E+00
213012113	95	0	5	0.7037043E+00
213012117	95	0	5	0.7037043E+00
213012121	95	0	5	0.7037043E+00
213012125	95	0	6	0.7189159E+00
213012129	95	0	6	0.7189159E+00
213012133	96	0	6	0.7221654E+00
213012137	96	0	6	0.7221654E+00
213012141	96	0	6	0.7221654E+00
213012145	96	0	6	0.7221654E+00
213012149	96	0	6	0.7221654E+00
213012153	96	0	6	0.7221654E+00
213012155	96	0	7	0.7353047E+00
213012159	97	0	7	0.7398487E+00
213012203	97	-1	7	0.7343539E+00
213012207	97	-1	7	0.7343539E+00
213012211	97	-1	7	0.7343539E+00
213012215	97	-1	7	0.7343539E+00
213012219	97	-1	7	0.7343539E+00
213012223	97	-1	7	0.7343539E+00
213012227	98	-1	7	0.7341946E+00
213012231	98	-1	7	0.7341946E+00
213012235	98	-1	8	0.7475442E+00
213012239	98	-1	8	0.7475442E+00
213012243	98	-1	8	0.7475442E+00
213012245	98	-1	8	0.7475442E+00
213012249	98	-1	8	0.7475442E+00
213012253	99	-1	8	0.7485907E+00
213012257	99	-1	8	0.7485907E+00
213012301	99	-1	8	0.7485907E+00
213012305	99	-2	8	0.7520592E+00
213012309	99	-2	8	0.7520592E+00
213012313	99	-2	8	0.7520592E+00
213012317	100	-2	8	0.7557771E+00
213012321	100	-2	8	0.7557771E+00
213012325	100	-2	8	0.7557771E+00
213012329	100	-2	8	0.7557771E+00
213012331	100	-2	8	0.7557771E+00
213012335	100	-2	8	0.7557771E+00
213012339	100	-2	8	0.7557771E+00
213012343	101	-2	8	0.7607240E+00
213012347	101	-2	8	0.7607240E+00
213012351	101	-2	8	0.7607240E+00
213012355	101	-2	8	0.7607240E+00
213012359	101	-2	8	0.7607240E+00
213012403	101	-2	8	0.7607240E+00
213012407	102	-2	8	0.7629960E+00
213012411	102	-3	8	0.7584915E+00
213012415	102	-3	8	0.7584915E+00
213012419	102	-3	7	0.7570079E+00
213012421	102	-3	7	0.7570079E+00
213012425	102	-3	7	0.7570079E+00
213012429	102	-3	7	0.7570079E+00

213012433	103	-3	7	0.7562368E+00
213012437	103	-3	7	0.7562368E+00
213012441	103	-3	7	0.7562368E+00
213012445	103	-3	7	0.7562368E+00
213012449	103	-3	7	0.7562368E+00
213012453	103	-3	6	0.7398517E+00
213012457	103	-3	6	0.7398517E+00
213012501	104	-3	6	0.7445349E+00
213012505	104	-3	6	0.7445349E+00
213012507	104	-3	6	0.7445349E+00
213012511	104	-3	6	0.7445349E+00
213012515	104	-3	6	0.7445349E+00
213012519	104	-3	5	0.7417566E+00
213012523	104	-4	5	0.7491365E+00
213012527	104	-4	5	0.7491365E+00
213012531	105	-4	5	0.7491365E+00
213012535	105	-4	5	0.7491365E+00
213012539	105	-4	4	0.7316592E+00
213012543	105	-4	4	0.7316592E+00
213012547	105	-4	4	0.7316592E+00
213012551	105	-4	4	0.7316592E+00
213012555	105	-4	4	0.7316592E+00
213012557	105	-4	3	0.7362802E+00
213012601	106	-4	3	0.7383319E+00
213012605	106	-4	3	0.7383319E+00
213012609	106	-4	3	0.7383319E+00
213012613	106	-4	3	0.7383319E+00
213012617	106	-4	2	0.7360344E+00
213012621	106	-4	2	0.7360344E+00
213012625	106	-4	2	0.7360344E+00
213012629	106	-4	2	0.7360344E+00
213012633	106	-4	2	0.7360344E+00
213012637	106	-5	1	0.7364488E+00
213012641	106	-5	1	0.7364488E+00
213012643	107	-5	1	0.7364488E+00
213012647	107	-5	1	0.7364488E+00
213012651	107	-5	1	0.7364488E+00
213012655	107	-5	0	0.7420288E+00
213012659	107	-5	0	0.7420288E+00
213012703	107	-5	0	0.7420288E+00
213012707	107	-5	0	0.7420288E+00
213012711	107	-5	0	0.7420288E+00
213012715	107	-5	-1	0.7369807E+00
213012719	107	-5	-1	0.7369807E+00
213012723	107	-5	-1	0.7369807E+00
213012727	107	-5	-1	0.7369807E+00
213012731	107	-5	-2	0.7309633E+00
213012733	108	-5	-2	0.7311758E+00
213012737	108	-5	-2	0.7311758E+00
213012741	108	-5	-2	0.7311758E+00
213012745	108	-6	-2	0.7391225E+00
213012749	108	-6	-3	0.7402225E+00
213012753	108	-6	-3	0.7402225E+00
213012757	108	-6	-3	0.7402225E+00
213012801	108	-6	-3	0.7402225E+00
213012805	108	-6	-4	0.7383513E+00

213012809	108	-6	-4	0.7383513E+00
213012813	108	-6	-4	0.7383513E+00
213012817	108	-6	-4	0.7383513E+00
213012819	108	-6	-4	0.7383513E+00
213012823	108	-6	-5	0.7379620E+00
213012827	108	-6	-5	0.7379620E+00
213012831	108	-6	-5	0.7379620E+00
213012835	108	-6	-5	0.7379620E+00
213012839	108	-6	-6	0.7365963E+00
213012843	108	-6	-6	0.7365963E+00
213012847	108	-6	-6	0.7365963E+00
213012851	108	-7	-6	0.7415920E+00
213012855	108	-7	-7	0.7492467E+00
213012859	108	-7	-7	0.7492467E+00
213012903	108	-7	-7	0.7492467E+00
213012907	109	-7	-7	0.7513018E+00
213012909	109	-7	-8	0.7559183E+00
213012913	109	-7	-8	0.7559183E+00
213012917	109	-7	-8	0.7559183E+00
213012921	109	-7	-8	0.7559183E+00
213012925	109	-7	-8	0.7559183E+00
213012929	109	-7	-9	0.7524288E+00
213012933	109	-7	-9	0.7524288E+00
213012937	109	-7	-9	0.7524288E+00
213012941	109	-7	-9	0.7524288E+00
213012945	109	-7	-10	0.7499062E+00
213012949	109	-7	-10	0.7499062E+00
213012953	109	-7	-10	0.7499062E+00
213012955	109	-7	-10	0.7499062E+00
213012959	109	-7	-11	0.7630616E+00
213013003	109	-7	-11	0.7630616E+00
213013007	109	-7	-11	0.7630616E+00
213013011	109	-7	-11	0.7630616E+00
213013015	109	-7	-12	0.7682638E+00
213013019	109	-7	-12	0.7682638E+00
213013023	109	-7	-12	0.7682638E+00
213013027	109	-7	-12	0.7682638E+00
213013031	108	-7	-13	0.7673044E+00
213013035	108	-7	-13	0.7673044E+00
213013039	108	-7	-13	0.7673044E+00
213013043	108	-7	-13	0.7673044E+00
213013045	108	-7	-13	0.7673044E+00
213013049	108	-7	-14	0.7739698E+00
213013053	108	-7	-14	0.7739698E+00
213013057	108	-7	-14	0.7739698E+00
213013101	108	-7	-14	0.7739698E+00
213013105	108	-7	-15	0.7815096E+00
213013109	108	-8	-15	0.7918971E+00
213013113	108	-8	-15	0.7918971E+00
213013117	107	-8	-15	0.7918971E+00
213013121	107	-8	-15	0.7918971E+00
213013125	107	-8	-16	0.7935817E+00
213013129	107	-8	-16	0.7935817E+00
213013133	107	-8	-16	0.7935817E+00
213013135	107	-8	-16	0.7935817E+00
213013139	107	-8	-17	0.8081429E+00

213013143	107	-8	-17	0.8081429E+00
213013147	106	-8	-17	0.8080465E+00
213013151	106	-8	-17	0.8080465E+00
213013155	106	-8	-17	0.8080465E+00
213013159	106	-8	-18	0.8161954E+00
213013203	106	-8	-18	0.8161954E+00
213013207	106	-8	-18	0.8161954E+00
213013211	106	-8	-18	0.8161954E+00
213013215	105	-8	-18	0.8155004E+00
213013219	105	-8	-19	0.8196282E+00
213013221	105	-8	-19	0.8196282E+00
213013225	105	-8	-19	0.8196282E+00
213013229	105	-8	-19	0.8196282E+00
213013233	104	-9	-20	0.8272917E+00
213013237	104	-9	-20	0.8272917E+00
213013241	104	-9	-20	0.8272917E+00
213013245	104	-9	-20	0.8272917E+00
213013249	104	-9	-20	0.8272917E+00
213013253	104	-9	-21	0.8352135E+00
213013257	103	-9	-21	0.8322918E+00
213013301	103	-9	-21	0.8322918E+00
213013305	103	-9	-21	0.8322918E+00
213013307	103	-9	-21	0.8322918E+00
213013311	103	-9	-22	0.8453290E+00
213013315	102	-9	-22	0.8464543E+00
213013319	102	-9	-22	0.8464543E+00
213013323	102	-9	-22	0.8464543E+00
213013327	102	-9	-23	0.8495658E+00
213013331	102	-9	-23	0.8495658E+00
213013335	101	-9	-23	0.8509108E+00
213013339	101	-9	-23	0.8509108E+00
213013343	101	-9	-23	0.8509108E+00
213013347	101	-9	-24	0.8552961E+00
213013351	100	-9	-24	0.8549936E+00
213013355	100	-9	-24	0.8549936E+00
213013357	100	-9	-24	0.8549936E+00
213013401	100	-9	-24	0.8549936E+00
213013405	100	-9	-25	0.8602358E+00
213013409	99	-9	-25	0.8633454E+00
213013413	99	-9	-25	0.8633454E+00
213013419	99	-9	-25	0.8633454E+00
213013421	99	-9	-26	0.8700749E+00
213013425	98	-9	-26	0.8688250E+00
213013429	98	-9	-26	0.8688250E+00
213013433	98	-9	-26	0.8688250E+00
213013437	98	-9	-26	0.8688250E+00
213013441	97	-9	-27	0.8774059E+00
213013443	97	-9	-27	0.8774059E+00
213013447	97	-9	-27	0.8774059E+00
213013451	97	-9	-27	0.8774059E+00
213013455	96	-9	-27	0.8823865E+00
213013459	96	-9	-28	0.8926618E+00
213013503	96	-9	-28	0.8926618E+00
213013507	96	-9	-28	0.8926618E+00
213013511	95	-9	-28	0.8910272E+00
213013515	95	-9	-28	0.8910272E+00

213013519	95	-10	-29	0.9039620E+00
213013523	95	-10	-29	0.9039620E+00
213013527	94	-10	-29	0.9043911E+00
213013531	94	-10	-29	0.9043911E+00
213013533	94	-10	-29	0.9043911E+00
213013537	94	-10	-30	0.9110272E+00
213013541	93	-10	-30	0.9110272E+00
213013545	93	-10	-30	0.9110272E+00
213013549	93	-10	-30	0.9110272E+00
213013553	92	-10	-30	0.9111955E+00
213013557	92	-10	-31	0.9218568E+00
213013601	92	-10	-31	0.9218568E+00
213013605	92	-10	-31	0.9218568E+00
213013609	91	-10	-31	0.9225811E+00
213013613	91	-10	-31	0.9225811E+00
213013617	91	-10	-32	0.9251723E+00
213013619	90	-10	-32	0.9290619E+00
213013623	90	-10	-32	0.9290619E+00
213013627	90	-10	-32	0.9290619E+00
213013631	90	-10	-32	0.9290619E+00
213013635	89	-10	-33	0.9331429E+00
213013639	89	-10	-33	0.9331429E+00
213013643	89	-10	-33	0.9331429E+00
213013647	88	-10	-33	0.9339381E+00
213013651	88	-10	-33	0.9339381E+00
213013655	88	-10	-34	0.9415702E+00
213013659	87	-10	-34	0.9434633E+00
213013703	87	-10	-34	0.9434633E+00
213013707	87	-10	-34	0.9434633E+00
213013709	86	-10	-34	0.9422510E+00
213013713	86	-10	-34	0.9422510E+00
213013717	86	-10	-34	0.9422510E+00
213013721	86	-10	-34	0.9422510E+00
213013725	86	-10	-34	0.9422510E+00
213013729	86	-10	-34	0.9422510E+00
213013733	86	-10	-34	0.9422510E+00
213013737	86	-10	-33	0.9396455E+00
213013741	86	-10	-33	0.9396455E+00
213013745	86	-10	-33	0.9396455E+00
213013749	87	-10	-33	0.9391004E+00
213013753	87	-10	-33	0.9391004E+00
213013755	87	-10	-32	0.9311463E+00
213013759	87	-10	-32	0.9311463E+00
213013803	87	-10	-32	0.9311463E+00
213013807	88	-10	-32	0.9312373E+00
213013811	88	-10	-32	0.9312373E+00
213013815	88	-10	-32	0.9312373E+00
213013819	88	-10	-32	0.9312373E+00
213013823	88	-10	-32	0.9312373E+00
213013827	88	-10	-32	0.9312373E+00
213013831	89	-10	-32	0.9292408E+00
213013835	89	-10	-32	0.9292408E+00
213013839	89	-10	-31	0.9234627E+00
213013843	89	-10	-31	0.9234627E+00
213013845	89	-10	-31	0.9234627E+00
213013849	89	-10	-31	0.9234627E+00

213013853	90	-10	-31	0.9235863E+00
213013857	90	-10	-31	0.9235863E+00
213013901	90	-10	-31	0.9235863E+00
213013905	90	-10	-31	0.9235863E+00
213013909	90	-10	-31	0.9235863E+00
213013913	90	-10	-31	0.9235863E+00
213013917	90	-10	-31	0.9235863E+00
213013921	91	-10	-31	0.9225811E+00
213013925	91	-10	-31	0.9225811E+00
213013929	91	-10	-31	0.9225811E+00
213013931	91	-10	-31	0.9225811E+00
213013935	91	-10	-31	0.9225811E+00
213013939	91	-10	-31	0.9225811E+00
213013943	92	-10	-31	0.9218568E+00
213013947	92	-10	-31	0.9218568E+00
213013951	92	-10	-31	0.9218568E+00
213013955	92	-10	-31	0.9218568E+00
213013959	92	-10	-31	0.9218568E+00
213014003	92	-10	-31	0.9218568E+00
213014007	92	-10	-31	0.9218568E+00
213014011	93	-10	-31	0.9208768E+00
213014015	93	-10	-31	0.9208768E+00
213014019	93	-10	-31	0.9208768E+00
213014021	93	-10	-32	0.9246328E+00
213014025	93	-10	-32	0.9246328E+00
213014029	93	-9	-32	0.9246328E+00
213014033	93	-9	-32	0.9246328E+00
213014037	94	-9	-32	0.9210189E+00
213014041	94	-9	-32	0.9210189E+00
213014045	94	-9	-32	0.9210189E+00
213014049	94	-9	-32	0.9210189E+00
213014053	94	-9	-32	0.9210189E+00
213014057	94	-9	-32	0.9210189E+00
213014101	94	-9	-32	0.9210189E+00
213014105	95	-9	-32	0.9207553E+00
213014107	95	-9	-32	0.9207553E+00
213014111	95	-9	-32	0.9207553E+00
213014115	95	-9	-33	0.9319274E+00
213014119	95	-9	-33	0.9319274E+00
213014123	95	-9	-33	0.9319274E+00
213014127	95	-9	-33	0.9319274E+00
213014131	96	-9	-33	0.9287622E+00
213014135	96	-9	-33	0.9287622E+00
213014139	96	-9	-33	0.9287622E+00
213014143	96	-9	-33	0.9287622E+00
213014147	96	-9	-34	0.9313454E+00
213014151	96	-9	-34	0.9313454E+00
213014155	96	-9	-34	0.9313454E+00
213014157	96	-9	-34	0.9313454E+00
213014201	97	-9	-34	0.9325156E+00
213014205	97	-9	-34	0.9325156E+00
213014209	97	-9	-34	0.9325156E+00
213014213	97	-9	-35	0.9370484E+00
213014217	97	-9	-35	0.9370484E+00
213014221	97	-9	-35	0.9370484E+00
213014225	97	-9	-35	0.9370484E+00

213014229	97	-9	-35	0.9370484E+00
213014233	98	-9	-35	0.9370484E+00
213014237	98	-9	-36	0.9440993E+00
213014241	98	-9	-36	0.9440993E+00
213014243	98	-9	-36	0.9440993E+00
213014247	98	-9	-36	0.9440993E+00
213014251	98	-9	-36	0.9440993E+00
213014255	98	-8	-37	0.9481430E+00
213014259	98	-8	-37	0.9481430E+00
213014303	98	-8	-37	0.9481430E+00
213014307	98	-8	-37	0.9481430E+00
213014311	99	-8	-37	0.9481105E+00
213014315	99	-8	-38	0.9522861E+00
213014319	99	-8	-38	0.9522861E+00
213014323	99	-8	-38	0.9522861E+00
213014327	99	-8	-38	0.9522861E+00
213014331	99	-8	-39	0.9554594E+00
213014333	99	-8	-39	0.9554594E+00
213014337	99	-8	-39	0.9554594E+00
213014341	100	-8	-39	0.9522406E+00
213014345	100	-8	-40	0.9596459E+00
213014349	100	-8	-40	0.9596459E+00
213014353	100	-8	-40	0.9596459E+00
213014357	100	-8	-40	0.9596459E+00
213014401	100	-8	-41	0.9638676E+00
213014405	100	-8	-41	0.9638676E+00
213014409	100	-8	-41	0.9638676E+00
213014413	100	-8	-42	0.9650853E+00
213014417	101	-8	-42	0.9650853E+00
213014419	101	-8	-42	0.9650853E+00
213014423	101	-8	-42	0.9650853E+00
213014427	101	-8	-43	0.9668383E+00
213014431	101	-8	-43	0.9668383E+00
213014435	101	-8	-43	0.9668383E+00
213014439	101	-8	-44	0.9712312E+00
213014443	101	-8	-44	0.9712312E+00
213014447	101	-8	-44	0.9712312E+00
213014451	101	-8	-45	0.9713676E+00
213014455	101	-8	-45	0.9713676E+00
213014459	102	-8	-45	0.9713676E+00
213014503	102	-8	-46	0.9749832E+00
213014507	102	-7	-46	0.9749832E+00
213014509	102	-7	-46	0.9749832E+00
213014513	102	-7	-47	0.9760298E+00
213014517	102	-7	-47	0.9760298E+00
213014521	102	-7	-47	0.9760298E+00
213014525	102	-7	-48	0.9784117E+00
213014529	102	-7	-48	0.9784117E+00
213014533	102	-7	-48	0.9784117E+00
213014537	102	-7	-49	0.9792897E+00
213014541	102	-7	-49	0.9792897E+00
213014545	102	-7	-50	0.9823290E+00
213014549	102	-7	-50	0.9823290E+00
213014553	102	-7	-50	0.9823290E+00
213014555	102	-7	-51	0.9820420E+00
213014559	102	-7	-51	0.9820420E+00

213014603	102	-7	-52	0.9850129E+00
213014607	102	-7	-52	0.9850129E+00
213014611	102	-7	-52	0.9850129E+00
213014615	102	-7	-53	0.9847932E+00
213014619	102	-7	-53	0.9847932E+00
213014623	102	-7	-54	0.9863389E+00
213014627	102	-7	-54	0.9863389E+00
213014631	102	-7	-54	0.9863389E+00
213014635	102	-7	-55	0.9866430E+00
213014639	102	-7	-55	0.9866430E+00
213014643	102	-7	-56	0.9877785E+00
213014645	102	-6	-56	0.9873998E+00
213014649	102	-6	-57	0.9880247E+00
213014653	102	-6	-57	0.9880247E+00
213014657	102	-6	-58	0.9881484E+00
213014701	102	-6	-58	0.9881484E+00
213014705	102	-6	-58	0.9881484E+00
213014709	102	-6	-59	0.9895604E+00
213014713	102	-6	-59	0.9895604E+00
213014717	102	-6	-60	0.9897799E+00
213014721	102	-6	-60	0.9897799E+00
213014725	102	-6	-61	0.9905196E+00
213014729	102	-6	-61	0.9905196E+00
213014731	103	-6	-62	0.9905196E+00
213014735	103	-6	-63	0.9907392E+00
213014739	103	-6	-63	0.9907392E+00
213014743	103	-6	-64	0.9910823E+00
213014747	103	-6	-65	0.9910823E+00
213014751	103	-6	-65	0.9910823E+00
213014755	103	-6	-66	0.9915050E+00
213014759	104	-6	-67	0.9915050E+00
213014803	104	-6	-67	0.9915050E+00
213014807	104	-6	-68	0.9916286E+00
213014811	104	-6	-69	0.9917522E+00
213014815	104	-6	-69	0.9917522E+00
213014819	104	-6	-70	0.9917522E+00
213014821	104	-6	-71	0.9919341E+00
213014825	104	-6	-71	0.9919341E+00
213014829	104	-6	-72	0.9919341E+00
213014833	104	-6	-73	0.9919341E+00
213014837	105	-6	-74	0.9919341E+00
213014841	105	-6	-74	0.9919341E+00
213014845	105	-6	-75	0.9919341E+00
213014849	105	-6	-76	0.9919341E+00
213014853	105	-6	-76	0.9919341E+00
213014857	105	-6	-77	0.9919341E+00
213014901	105	-6	-78	0.9919341E+00
213014905	105	-6	-79	0.9919341E+00
213014907	105	-6	-79	0.9919341E+00
213014911	105	-6	-80	0.9919341E+00
213014915	105	-6	-81	0.9919341E+00
213014919	105	-6	-82	0.9919341E+00
213014923	105	-6	-82	0.9919341E+00
213014927	105	-6	-83	0.9919341E+00
213014931	105	-6	-84	0.9919341E+00
213014935	105	-6	-85	0.9919341E+00

213014939	105	-6	-86	0.9919341E+00
213014943	105	-6	-86	0.9919341E+00
213014947	105	-6	-87	0.9919341E+00
213014951	105	-6	-88	0.9919341E+00
213014955	104	-6	-89	0.9919341E+00
213014957	104	-6	-90	0.9919341E+00
213015001	104	-6	-91	0.9919341E+00
213015005	104	-6	-91	0.9919341E+00
213015009	104	-6	-92	0.9919341E+00
213015013	104	-6	-93	0.9919341E+00
213015017	104	-6	-94	0.9919341E+00
213015021	104	-6	-95	0.9919341E+00
213015025	104	-6	-96	0.9919341E+00
213015029	104	-6	-96	0.9919341E+00
213015033	103	-6	-97	0.9919341E+00
213015037	103	-6	-98	0.9919341E+00
213015041	103	-6	-99	0.9919341E+00
213015043	103	-5	-100	0.9919341E+00
213015047	103	-5	-101	0.9919341E+00
213015053	103	-5	-102	0.9919341E+00
213015055	102	-5	-103	0.9919341E+00
213015059	102	-5	-103	0.9919341E+00
213015103	102	-5	-104	0.9919341E+00
213015107	102	-5	-105	0.9919341E+00
213015111	102	-5	-106	0.9919341E+00
213015115	101	-5	-107	0.9919341E+00
213015119	101	-5	-108	0.9919341E+00
213015123	101	-5	-110	0.9919341E+00
213015129	100	-5	-111	0.9919341E+00
213015133	100	-5	-112	0.9919341E+00
213015139	100	-5	-113	0.9919341E+00
213015143	99	-5	-114	0.9919341E+00
213015145	99	-5	-115	0.9919341E+00
213015149	99	-5	-116	0.9919341E+00
213015153	99	-5	-117	0.9919341E+00
213015157	98	-5	-118	0.9919341E+00
213015201	98	-5	-118	0.9919341E+00
213015205	98	-5	-119	0.9919341E+00
213015209	97	-5	-120	0.9919341E+00
213015213	97	-5	-121	0.9919341E+00
213015217	97	-5	-122	0.9919341E+00
213015219	96	-5	-123	0.9919341E+00
213015223	96	-5	-124	0.9919341E+00
213015227	95	-5	-125	0.9919341E+00
213015231	95	-5	-127	0.9919341E+00
213015237	95	-5	-127	0.9919341E+00
213015239	94	-5	-128	0.9919341E+00
213015243	94	-5	-129	0.9919341E+00
213015247	93	-5	-130	0.9919341E+00
213015251	93	-5	-131	0.9919341E+00
213015255	92	-5	-133	0.9919341E+00
213015259	92	-5	-134	0.9919341E+00
213015303	91	-5	-135	0.9919341E+00
213015307	91	-5	-136	0.9919341E+00
213015309	90	-5	-137	0.9919341E+00
213015313	90	-5	-138	0.9919341E+00

213015317	89	-5	-139	0.9919341E+00
213015321	89	-5	-140	0.9919341E+00
213015325	88	-5	-141	0.9919341E+00
213015329	88	-5	-142	0.9919341E+00
213015333	87	-5	-143	0.9919341E+00
213015337	87	-5	-144	0.9919341E+00
213015341	86	-5	-145	0.9919341E+00
213015345	86	-5	-146	0.9919341E+00
213015349	85	-5	-147	0.9919341E+00
213015353	84	-5	-148	0.9919341E+00
213015355	84	-4	-150	0.9919341E+00
213015359	83	-4	-151	0.9919341E+00
213015403	83	-4	-152	0.9919341E+00
213015407	82	-4	-153	0.9919341E+00
213015411	81	-4	-154	0.9919341E+00
213015415	81	-4	-155	0.9919341E+00
213015419	80	-4	-156	0.9919341E+00
213015423	79	-4	-157	0.9919341E+00
213015427	79	-4	-158	0.9919341E+00
213015431	78	-4	-160	0.9919341E+00
213015435	77	-4	-161	0.9919341E+00
213015439	77	-4	-162	0.9919341E+00
213015443	76	-4	-163	0.9919341E+00
213015445	75	-4	-164	0.9919341E+00
213015449	74	-4	-165	0.9919341E+00
213015453	74	-4	-166	0.9919341E+00
213015457	73	-4	-168	0.9919341E+00
213015501	72	-4	-169	0.9919341E+00
213015505	71	-4	-170	0.9919341E+00
213015509	70	-4	-171	0.9919341E+00
213015513	70	-4	-172	0.9919341E+00
213015517	69	-4	-173	0.9919341E+00
213015521	68	-4	-174	0.9919341E+00
213015525	67	-4	-176	0.9919341E+00
213015529	66	-4	-177	0.9919341E+00
213015531	65	-4	-178	0.9919341E+00
213015535	64	-4	-179	0.9919341E+00
213015539	64	-4	-180	0.9919341E+00
213015543	63	-4	-182	0.9919341E+00
213015547	62	-4	-183	0.9919341E+00
213015551	61	-4	-184	0.9919341E+00
213015555	60	-4	-185	0.9919341E+00
213015559	59	-4	-186	0.9919341E+00
213015603	58	-4	-188	0.9919341E+00
213015607	57	-3	-189	0.9919341E+00
213015611	56	-3	-190	0.9919341E+00
213015615	55	-3	-191	0.9919341E+00
213015619	54	-3	-192	0.9919341E+00
213015621	53	-3	-194	0.9919341E+00
213015625	52	-3	-195	0.9919341E+00
213015629	51	-3	-196	0.9919341E+00
213015633	50	-3	-197	0.9919341E+00
213015637	49	-3	-199	0.9919341E+00
213015641	48	-3	-200	0.9919341E+00
213015645	47	-3	-202	0.9919341E+00
213015649	46	-3	-203	0.9919341E+00

213015653	45	-3	-204	0.9919341E+00
213015657	44	-3	-205	0.9919341E+00
213015701	43	-3	-206	0.9919341E+00
213015705	41	-3	-208	0.9919341E+00
213015707	40	-3	-209	0.9919341E+00
213015711	38	-3	-209	0.9919341E+00
213015715	37	-3	-209	0.9919341E+00
213015719	35	-3	-209	0.9919341E+00
213015723	33	-3	-210	0.9919341E+00
213015727	31	-2	-210	0.9919341E+00
213015731	30	-2	-210	0.9919341E+00
213015735	28	-2	-210	0.9919341E+00
213015739	26	-2	-209	0.9919341E+00
213015743	24	-2	-209	0.9919341E+00
213015747	23	-1	-209	0.9919341E+00
213015751	21	-1	-209	0.9919341E+00
213015755	20	0	-208	0.9919341E+00
213015757	18	0	-208	0.9919341E+00
213015801	17	1	-208	0.9919341E+00
213015805	16	2	-208	0 9919341E+00
213015809	14	2	-208	0.9919341E+00
213015813	13	3	-207	0.9919341E+00
213015817	12	4	-207	0.9919341E+00
213015821	11	5	-207	0.9919341E+00
213015825	9	5	-207	0.9919341E+00
213015829	8	6	-206	0.9919341E+00
213015833	7	7	-206	0.9919341E+00
213015837	6	8	-206	0.9919341E+00
213015841	5	9	-206	0.9919341E+00
213015843	4	9	-205	0.9919341E+00
213015847	2	10	-205	0.9919341E+00
213015851	1	11	-205	0.9919341E+00
213015855	0	12	-205	0.9919341E+00
213015859	-1	13	-204	0.9919341E+00
213015903	-2	13	-204	0.9919341E+00
213015907	-3	14	-204	0.9919341E+00
213015911	-5	15	-204	0.9919341E+00
213015915	-6	16	-204	0.9919341E+00
213015919	-7	16	-203	0.9919341E+00
213015923	-8	18	-203	0.9919341E+00
213015927	-10	19	-203	0.9919341E+00
213015933	-11	20	-202	0.9919341E+00
213015937	-13	21	-202	0.9919341E+00
213015943	-14	22	-202	0.9919341E+00
213015947	-16	23	-202	0.9919341E+00
213015953	-17	24	-201	0.9919341E+00
213015957	-19	25	-201	0.9919341E+00
213020003	-20	26	-201	0.9919341E+00
213020007	-21	26	-201	0.9919341E+00
213020009	-22	27	-201	0.9919341E+00
213020013	-23	27	-200	0.9919341E+00
213020017	-24	28	-200	0.9919341E+00
213020019	-25	29	-200	0.9919341E+00
213020023	-27	30	-200	0.9919341E+00
213020029	-28	31	-200	0.9919341E+00
213020033	-30	32	-199	0.9919341E+00

213020039	-31	33	-199	0.9919341E+00
213020043	-33	34	-199	0.9919341E+00
213020049	-34	35	-199	0.9919341E+00
213020053	-36	36	-199	0.9919341E+00
213020059	-37	37	-198	0.9919341E+00
213020103	-39	38	-198	0.9919341E+00
213020109	-40	39	-198	0.9919341E+00
213020113	-42	40	-198	0.9919341E+00
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213022747	-161	191	142	0.9919341E+00
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213022755	-158	190	143	0.9919341E+00
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213022819	-149	186	147	0.9919341E+00
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213024959	214	23	98	0.9904473E+00
213025003	214	23	98	0.9904473E+00
213025007	214	22	98	0.9904473E+00
213025011	215	22	97	0.9900774E+00
213025015	214	22	97	0.9900774E+00
213025019	214	22	96	0.9900774E+00
213025023	214	22	96	0.9900774E+00
213025027	214	22	95	0.9897905E+00
213025031	214	22	95	0.9897905E+00
213025035	214	22	94	0.9897905E+00
213025039	214	22	94	0.9897905E+00
213025043	214	22	94	0.9897905E+00
213025047	214	21	93	0.9893206E+00
213025049	214	21	93	0.9893206E+00
213025053	214	21	92	0.9893206E+00
213025057	214	21	92	0.9893206E+00
213025101	214	21	91	0.9889508E+00
213025105	214	21	91	0.9889508E+00
213025109	214	21	91	0.9889508E+00
213025113	214	21	90	0.9889508E+00
213025117	214	21	90	0.9889508E+00
213025121	214	20	89	0.9883630E+00
213025125	213	20	89	0.9883630E+00
213025129	213	20	89	0.9883630E+00
213025133	213	20	88	0.9883630E+00
213025135	213	20	88	0.9883630E+00
213025139	213	20	88	0.9883630E+00
213025143	213	20	87	0.9883630E+00
213025147	213	20	87	0.9883630E+00
213025151	213	20	87	0.9883630E+00

213025155	213	19	86	0.9878931E+00
213025159	213	19	86	0.9878931E+00
213025203	213	19	86	0.9878931E+00
213025207	212	19	85	0.9878931E+00
213025211	212	19	85	0.9878931E+00
213025215	212	19	85	0.9878931E+00
213025219	212	19	84	0.9871687E+00
213025223	212	19	84	0.9871687E+00
213025225	212	18	84	0.9871687E+00
213025229	212	18	83	0.9871687E+00
213025233	212	18	83	0.9871687E+00
213025237	212	18	83	0.9871687E+00
213025241	211	18	83	0.9871687E+00
213025245	211	18	82	0.9865807E+00
213025249	211	18	82	0.9865807E+00
213025253	211	18	82	0.9865807E+00
213025257	211	18	82	0.9865807E+00
213025301	211	17	81	0.9865807E+00
213025305	211	17	81	0.9865807E+00
213025309	210	17	81	0.9865807E+00
213025311	210	17	81	0.9865807E+00
213025315	210	17	81	0.9865807E+00
213025319	210	17	80	0.9857026E+00
213025323	210	17	80	0.9857026E+00
213025327	210	17	80	0.9857026E+00
213025331	210	16	80	0.9857026E+00
213025335	209	16	80	0.9857026E+00
213025339	209	16	79	0.9857026E+00
213025343	209	16	79	0.9857026E+00
213025347	209	16	79	0.9857026E+00
213025351	209	16	79	0.9857026E+00
213025355	209	16	79	0.9857026E+00
213025359	209	16	79	0.9857026E+00
213025401	208	15	79	0.9857026E+00
213025405	208	15	78	0.9849783E+00
213025409	208	15	78	0.9849783E+00
213025413	208	15	78	0.9849783E+00
213025417	208	15	78	0.9849783E+00
213025421	208	15	78	0.9849783E+00
213025425	208	15	78	0.9849783E+00
213025429	208	15	78	0.9849783E+00
213025433	207	15	78	0.9857026E+00
213025437	207	14	78	0.9857026E+00
213025441	207	14	78	0.9857026E+00
213025445	207	14	78	0.9857026E+00
213025447	207	14	77	0.9849783E+00
213025451	207	14	77	0.9849783E+00
213025455	206	14	77	0.9849783E+00
213025459	206	14	77	0.9849783E+00
213025503	206	14	77	0.9849783E+00
213025507	206	14	77	0.9849783E+00
213025511	206	13	77	0.9849783E+00
213025515	206	13	77	0.9849783E+00
213025519	206	13	77	0.9849783E+00
213025523	205	13	77	0.9849783E+00
213025527	205	13	77	0.9849783E+00

213025531	205	13	77	0.9849783E+00
213025535	205	13	77	0.9849783E+00
213025537	205	13	77	0.9849783E+00
213025541	205	13	77	0.9849783E+00
213025545	204	12	77	0.9849783E+00
213025549	204	12	77	0.9849783E+00
213025553	204	12	77	0.9849783E+00
213025557	204	12	77	0.9849783E+00
213025601	204	12	77	0.9849783E+00
213025605	204	12	77	0.9849783E+00
213025609	204	12	77	0.9849783E+00
213025613	203	12	77	0.9857026E+00
213025617	203	11	77	0.9849783E+00
213025621	203	11	77	0.9849783E+00
213025623	203	11	77	0.9849783E+00
213025627	203	11	77	0.9849783E+00
213025631	203	11	78	0.9857026E+00
213025635	203	11	78	0.9857026E+00
213025639	202	11	78	0.9857026E+00
213025643	202	11	78	0.9857026E+00
213025647	202	11	78	0.9857026E+00
213025651	202	10	78	0.9849783E+00
213025655	202	10	78	0.9849783E+00
213025659	202	10	78	0.9849783E+00
213025703	202	10	78	0.9849783E+00
213025707	202	10	79	0.9849783E+00
213025711	202	10	79	0.9849783E+00
213025713	202	1C	79	0.9849783E+00
213025717	201	10	79	0.9865807E+00
213025721	201	9	79	0.9858564E+00
213025725	201	9	79	0.9858564E+00
213025729	201	9	80	0.9858564E+00
213025733	201	9	80	0.9858564E+00
213025737	201	9	80	0.9858564E+00
213025741	201	9	80	0.9858564E+00
213025745	201	9	80	0.9858564E+00
213025749	201	9	81	0.9865807E+00
213025753	201	9	81	0.9865807E+00
213025757	201	8	81	0.9865807E+00
213025759	201	8	81	0.9865807E+00
213025803	201	8	82	0.9865807E+00
213025807	201	8	82	0.9865807E+00
213025811	201	8	81	0.9865807E+00
213025815	201	8	81	0.9865807E+00
213025819	201	7	81	0.9865807E+00
213025823	202	7	80	0.9858564E+00
213025827	202	7	80	0.9858564E+00
213025831	202	7	79	0.9849783E+00
213025835	203	7	78	0.9849783E+00
213025839	203	7	77	0.9841001E+00
213025843	204	6	76	0.9830535E+00
213025847	205	6	75	0.9832355E+00
213025849	206	6	74	0.9821889E+00
213025853	207	6	73	0.9809635E+00
213025857	208	6	72	0.9812107E+00
213025901	208	6	71	0.9799852E+00

213025905	209	6	70	0.9799852E+00
213025909	210	5	69	0.9789084E+00
213025913	211	5	68	0.9775000E+00
213025917	212	5	67	0.9775000E+00
213025921	212	5	66	0.9763514E+00
213025925	213	5	65	0.9763514E+00
213025929	214	5	64	0.9747639E+00
213025933	215	4	63	0.9735850E+00
213025935	216	4	62	0.9735850E+00
213025939	216	4	61	0.9718322E+00
213025943	217	4	60	0.9722020E+00
213025947	218	4	59	0.9706786E+00
213025951	219	4	58	0.9687856E+00
213025955	219	3	57	0.9687856E+00
213025959	220	3	56	0.9677289E+00
213030003	221	3	55	0.9677289E+00
213030007	221	3	54	0.9657323E+00
213030011	222	3	53	0.9669082E+00
213030015	223	3	52	0.9648564E+00
213030019	223	3	50	0.9628048E+00
213030023	224	2	49	0.9642535E+00
213030025	225	2	48	0.9609799E+00
213030029	225	2	47	0.9589316E+00
213030033	226	2	46	0.9586914E+00
213030037	227	2	45	0.9553046E+00
213030041	227	2	44	0.9542581E+00
213030045	228	2	43	0.9532712E+00
213030049	229	1	42	0.9531295E+00
213030053	229	1	41	0.9464629E+00
213030057	230	1	40	0.9462832E+00
213030101	230	1	39	0.9475121E+00
213030105	231	1	37	0.9433908E+00
213030109	231	1	36	0.9434608E+00
213030111	232	0	35	0.9395564E+00
213030115	233	0	34	0.9357703E+00
213030119	233	0	33	0.9336804E+00
213030123	234	0	32	0.9285879E+00
213030127	234	0	31	0.9317631E+00
213030131	235	0	30	0.9317631E+00
213030135	235	0	28	0.9300057E+00
213030139	236	-1	27	0.9311597E+00
213030143	236	-1	26	0.9295349E+00
213030147	237	-1	25	0.9272869E+00
213030151	237	-1	24	0.9291049E+00
213030155	237	-1	23	0.9328275E+00
213030159	238	-1	22	0.9318208E+00
213030201	238	-1	21	0.9305643E+00
213030205	239	-2	19	0.9330213E+00
213030209	239	-2	18	0.9272338E+00
213030213	240	-2	17	0.9246909E+00
213030217	240	-2	16	0.9234345E+00
213030221	240	-2	15	0.9269176E+00
213030225	241	-2	14	0.9248707E+00
213030229	241	-2	12	0.9219180E+00
213030233	241	-3	11	0.9211735E+00
213030237	242	-3	10	0.9200270E+00

213030241	242	-3	9	0.9175914E+00
213030245	242	-3	8	0.9147924E+00
213030247	243	-3	7	0.9176335E+00
213030251	243	-3	5	0.9167557E+00
213030255	243	-3	4	0.9149625E+00
213030259	243	-4	3	0.9166610E+00
213030303	244	-4	2	0.9189907E+00
213030307	244	-4	1	0.9179839E+00
213030311	244	-4	-1	0.9160156E+00
213030315	244	-4	-2	0.9160156E+00
213030319	244	-4	-3	0.9172971E+00
213030323	245	-5	-4	0.9170949E+00
213030327	245	-5	-5	0.9142509E+00
213030331	245	-5	-7	0.9176625E+00
213030335	245	-5	-8	0.9171045E+00
213030337	245	-5	-9	0.9186942E+00
213030341	245	-5	-10	0.9164915E+00
213030345	245	-6	-12	0.9220958E+00
213030349	246	-6	-13	0.9212329E+00
213030353	246	-6	-14	0.9182155E+00
213030357	246	-6	-15	0.9184903E+00
213030401	246	-6	-16	0.9204585E+00
213030405	246	-6	-18	0.9286867E+00
213030409	246	-6	-19	0.9256853E+00
213030413	246	-7	-20	0.9270346E+00
213030417	246	-7	-21	0.9250033E+00
213030421	246	-7	-23	0.9306530E+00
213030423	246	-7	-24	0.9251965E+00
213030427	246	-7	-25	0.9293194E+00
213030431	246	-7	-26	0.9300177E+00
213030435	246	-7	-28	0.9263581E+00
213030439	246	-8	-29	0.9269766E+00
213030443	246	-8	-30	0.9328386E+00
213030447	246	-8	-31	0.9292172E+00
213030451	246	-8	-33	0.9295871E+00
213030455	246	-8	-34	0.9320345E+00
213030459	246	-8	-35	0.9311903E+00
213030503	246	-9	-36	0.9372438E+00
213030507	245	-9	-38	0.9439554E+00
213030511	245	-9	-39	0.9440165E+00
213030513	245	-9	-40	0.9424806E+00
213030517	245	-9	-41	0.9424107E+00
213030521	245	-9	-43	0.9464827E+00
213030525	245	-9	-44	0.9471259E+00
213030529	245	-10	-45	0.9430225E+00
213030533	244	-10	-46	0.9470490E+00
213030537	244	-10	-48	0.9520960E+00
213030541	244	-10	-49	0.9508704E+00
213030545	244	-10	-50	0.9509221E+00
213030549	244	-10	-52	0.9561887E+00
213030553	243	-10	-53	0.9533894E+00
213030557	243	-11	-54	0.9594893E+00
213030559	243	-11	-55	0.9594893E+00
213030603	243	-11	-56	0.9628683E+00
213030607	242	-11	-58	0.9623991E+00
213030611	242	-11	-59	0.9623991E+00

213030615	242	-11	-60	0.9676973E+00
213030619	241	-11	-62	0.9669729E+00
213030623	241	-12	-63	0.9655644E+00
213030627	241	-12	-64	0.9687405E+00
213030631	240	-12	-65	0.9700456E+00
213030635	240	-12	-67	0.9688202E+00
213030639	240	-12	-68	0.9704078E+00
213030643	239	-12	-69	0.9735436E+00
213030647	239	-12	-71	0.9720271E+00
213030649	239	-12	-72	0.9730737E+00
213030653	238	-13	-73	0.9773704E+00
213030657	238	-13	-74	0.9759541E+00
213030701	237	-13	-76	0.9759541E+00
213030705	237	-13	-77	0.9797769E+00
213030709	236	-13	-78	0.9794900E+00
213030713	236	-13	-80	0.9794900E+00
213030717	236	-13	-81	0.9819434E+00
213030721	235	-14	-82	0.9817239E+00
213030725	235	-14	-83	0.9826020E+00
213030729	234	-14	-85	0.9845716E+00
213030733	234	-14	-86	0.9844058E+00
213030735	233	-14	-87	0.9844058E+00
213030739	232	-14	-89	0.9860709E+00
213030743	232	-14	-90	0.9859473E+00
213030747	231	-14	-91	0.9859473E+00
213030751	231	-15	-92	0.9859473E+00
213030755	230	-15	-94	0.9873051E+00
213030759	230	-15	-95	0.9873051E+00
213030803	229	-15	-96	0.9873051E+00
213030807	228	-15	-98	0.9884810E+00
213030811	228	-15	-99	0.9884810E+00
213030815	227	-15	-100	0.9884810E+00
213030819	227	-16	-101	0.9894207E+00
213030823	226	-16	-103	0.9894207E+00
213030825	225	-16	-104	0.9894207E+00
213030829	224	-16	-105	0.9901603E+00
213030833	224	-16	-107	0.9901603E+00
213030837	223	-16	-108	0.9901603E+00
213030841	222	-16	-109	0.9907342E+00
213030845	222	-16	-111	0.9907342E+00
213030849	221	-17	-112	0.9909537E+00
213030853	220	-17	-113	0.9911733E+00
213030857	219	-17	-114	0.3911733E+00
213030901	219	-17	-116	0.9915050E+00
213030905	218	-17	-117	0.9915050E+00
213030909	217	-17	-118	0.9915050E+00
213030911	216	-17	-120	0.9917522E+00
213030915	215	-17	-121	0.9917522E+00
213030919	215	-18	-122	0.9917522E+00
213030923	214	-18	-124	0.9919341E+00
213030927	213	-18	-125	0.9919341E+00
213030931	212	-18	-126	0.9919341E+00
213030935	211	-18	-127	0.9919341E+00
213030939	210	-18	-129	0.9919341E+00
213030943	209	-18	-130	0.9919341E+00
213030947	208	-18	-131	0.9919341E+00

213030951	208	-19	-133	0.9919341E+00
213030955	207	-19	-134	0.9919341E+00
213030959	206	-19	-135	0.9919341E+00
213031001	205	-19	-137	0.9919341E+00
213031005	204	-19	-138	0.9919341E+00
213031009	203	-19	-139	0.9919341E+00
213031013	202	-19	-140	0.9919341E+00
213031017	201	-19	-142	0.9919341E+00
213031021	200	-20	-143	0.9919341E+00
213031025	199	-20	-144	0.9919341E+00
213031029	198	-20	-146	0.9919341E+00
213031033	197	-20	-147	0.9919341E+00
213031037	196	-20	-148	0.9919341E+00
213031041	194	-20	-150	0.9919341E+00
213031045	193	-20	-151	0.9919341E+00
213031047	192	-20	-153	0.9919341E+00
213031051	191	-21	-154	0.9919341E+00
213031055	190	-21	-155	0.9919341E+00
213031059	188	-21	-157	0.9919341E+00
213031103	187	-21	-158	0.9919341E+00
213031107	186	-21	-160	0.9919341E+00
213031111	184	-21	-161	0.9919341E+00
213031115	182	-21	-161	0.9919341E+00
213031119	180	-21	-162	0.9919341E+00
213031123	179	-21	-163	0.9919341E+00
213031127	178	-21	-163	0.9919341E+00
213031131	177	-21	-164	0.9919341E+00
213031135	177	-22	-164	0.9919341E+00
213031137	176	-22	-164	0.9919341E+00
213031141	175	-22	-164	0.9919341E+00
213031145	174	-22	-164	0.9919341E+00
213031149	173	-22	-164	0.9919341E+00
213031153	173	-22	-164	0.9919341E+00
213031157	172	-22	-164	0.9919341E+00
213031201	171	-22	-163	0.9919341E+00
213031205	171	-22	-163	0.9919341E+00
213031209	170	-22	-163	0.9919341E+00
213031213	169	-22	-162	0.9919341E+00
213031217	169	-22	-162	0.9919341E+00
213031221	168	-22	-162	0.9919341E+00
213031223	167	-22	-161	0.9919341E+00
213031227	167	-22	-161	0.9919341E+00
213031231	166	-22	-161	0.9919341E+00
213031235	166	-22	-160	0.9919341E+00
213031239	165	-22	-160	0.9919341E+00
213031243	164	-22	-160	0.9919341E+00
213031247	164	-22	-160	0.9919341E+00
213031251	163	-21	-159	0.9919341E+00
213031255	163	-21	-159	0.9919341E+00
213031259	162	-21	-159	0.9919341E+00
213031303	161	-21	-159	0.9919341E+00
213031307	161	-21	-158	0.9919341E+00
213031311	160	-21	-158	0.9919341E+00
213031313	160	-21	-158	0.9919341E+00
213031317	159	-21	-158	0.9919341E+00
213031321	159	-21	-157	0.9919341E+00

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213031345	155	-21	-156	0.9919341E+00
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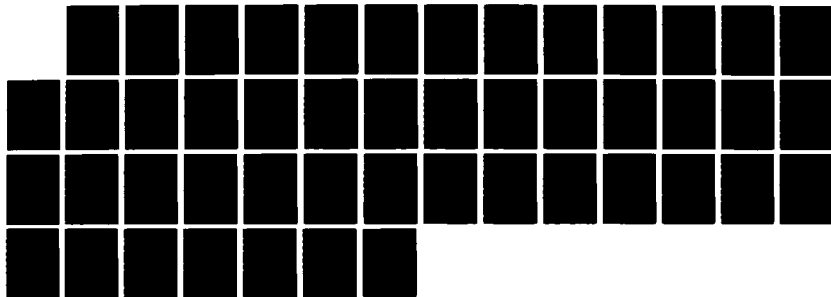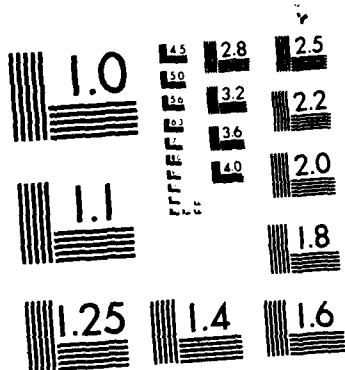
MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAU OF STANDARDS-1963-A

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213031715	125	-17	-151	0.9919341E+00
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213031739	122	-17	-152	0.9919341E+00
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213031751	120	-17	-152	0.9919341E+00
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213032929	-24	13	-203	0.9919341E+00
213032933	-24	14	-202	0.9919341E+00
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213033549	-76	113	-188	0.9919341E+00
213033553	-78	115	-187	0.9919341E+00
213033557	-80	116	-186	0.9919341E+00
213033601	-81	118	-186	0.9919341E+00
213033605	-83	119	-185	0.9919341E+00
213033609	-84	121	-184	0.9919341E+00
213033613	-86	122	-184	0.9919341E+00
213033617	-88	124	-183	0.9919341E+00
213033621	-89	125	-182	0.9919341E+00
213033623	-91	127	-182	0.9919341E+00
213033627	-92	128	-181	0.9919341E+00
213033631	-94	130	-180	0.9919341E+00
213033635	-95	131	-179	0.9919341E+00
213033639	-97	133	-179	0.9919341E+00
213033643	-98	134	-178	0.9919341E+00
213033647	-100	136	-177	0.9919341E+00
213033651	-101	137	-176	0.9919341E+00
213033655	-103	139	-176	0.9919341E+00
213033659	-104	140	-175	0.9919341E+00
213033703	-106	142	-174	0.9919341E+00
213033707	-107	143	-173	0.9919341E+00
213033711	-109	145	-173	0.9919341E+00
213033713	-110	146	-172	0.9919341E+00
213033717	-112	147	-171	0.9919341E+00
213033721	-113	149	-170	0.9919341E+00
213033725	-114	150	-170	0.9919341E+00
213033729	-116	152	-169	0.9919341E+00
213033733	-117	153	-168	0.9919341E+00
213033737	-119	155	-167	0.9919341E+00
213033741	-120	156	-167	0.9919341E+00
213033745	-121	158	-166	0.9919341E+00
213033749	-123	159	-165	0.9919341E+00
213033753	-124	160	-164	0.9919341E+00
213033757	-125	162	-163	0.9919341E+00
213033759	-127	163	-163	0.9919341E+00
213033803	-128	165	-162	0.9919341E+00
213033807	-129	166	-161	0.9919341E+00
213033811	-131	167	-160	0.9919341E+00
213033815	-132	169	-159	0.9919341E+00
213033819	-133	170	-159	0.9919341E+00
213033823	-135	172	-158	0.9919341E+00
213033827	-136	173	-157	0.9919341E+00

213033831	-137	174	-156	0.9919341E+00
213033835	-139	176	-155	0.9919341E+00
213033839	-140	177	-155	0.9919341E+00
213033843	-141	178	-154	0.9919341E+00
213033847	-142	180	-153	0.9919341E+00
213033849	-144	181	-152	0.9919341E+00
213033853	-145	183	-151	0.9919341E+00
213033857	-146	184	-150	0.9919341E+00
213033901	-147	185	-150	0.9919341E+00
213033905	-149	187	-149	0.9919341E+00
213033909	-150	188	-148	0.9919341E+00
213033913	-151	189	-147	0.9919341E+00
213033917	-152	191	-146	0.9919341E+00
213033921	-154	192	-145	0.9919341E+00
213033925	-155	193	-144	0.9919341E+00
213033929	-156	195	-144	0.9919341E+00
213033933	-157	196	-143	0.9919341E+00
213033935	-158	197	-142	0.9919341E+00
213033939	-160	199	-141	0.9919341E+00
213033943	-161	200	-140	0.9919341E+00
213033947	-162	201	-139	0.9919341E+00
213033951	-163	203	-138	0.9919341E+00
213033955	-164	204	-138	0.9919341E+00
213033959	-165	205	-137	0.9919341E+00
213034003	-166	207	-136	0.9919341E+00
213034007	-168	208	-135	0.9919341E+00
213034011	-169	209	-134	0.9919341E+00
213034015	-170	211	-133	0.9919341E+00
213034019	-171	212	-132	0.9919341E+00
213034023	-172	213	-131	0.9919341E+00
213034025	-173	214	-131	0.9919341E+00
213034029	-174	216	-130	0.9919341E+00
213034033	-175	217	-129	0.9919341E+00
213034037	-176	218	-128	0.9919341E+00
213034041	-177	220	-127	0.9919341E+00
213034045	-178	221	-126	0.9919341E+00
213034049	-179	222	-125	0.9919341E+00
213034053	-180	223	-124	0.9919341E+00
213034057	-182	225	-123	0.9919341E+00
213034101	-183	226	-123	0.9919341E+00
213034105	-184	227	-122	0.9919341E+00
213034109	-185	228	-121	0.9919341E+00
213034111	-186	230	-120	0.9919341E+00
213034115	-187	231	-119	0.9919341E+00
213034119	-187	232	-118	0.9919341E+00
213034123	-188	233	-117	0.9919341E+00
213034127	-189	234	-116	0.9919341E+00
213034131	-190	236	-115	0.9919341E+00
213034135	-191	237	-114	0.9919341E+00
213034139	-192	238	-113	0.9919341E+00
213034143	-193	239	-112	0.9919341E+00
213034147	-194	240	-112	0.9919341E+00
213034151	-195	242	-111	0.9919341E+00
213034155	-196	243	-110	0.9919341E+00
213034159	-197	244	-109	0.9919341E+00
213034201	-198	245	-108	0.9919341E+00

213034205	-199	246	-107	0.9919341E+00
213034209	-199	247	-106	0.9919341E+00
213034213	-200	249	-105	0.9919341E+00
213034217	-201	250	-104	0.9919341E+00
213034221	-202	251	-103	0.9919341E+00
213034225	-203	252	-102	0.9919341E+00
213034229	-204	253	-101	0.9919341E+00
213034233	-205	254	-100	0.9919341E+00
213034237	-205	255	-99	0.9919341E+00
213034241	-206	257	-98	0.9919341E+00
213034245	-207	258	-97	0.9919341E+00
213034247	-208	259	-96	0.9919341E+00
213034251	-209	260	-96	0.9919341E+00
213034255	-209	261	-95	0.9919341E+00
213034259	-210	262	-94	0.9919341E+00
213034303	-211	263	-93	0.9919341E+00
213034307	-212	264	-92	0.9919341E+00
213034311	-212	265	-91	0.9919341E+00
213034315	-213	266	-90	0.9919341E+00
213034319	-214	268	-89	0.9919341E+00
213034323	-215	269	-88	0.9919341E+00
213034327	-215	270	-87	0.9919341E+00
213034331	-216	271	-86	0.9919341E+00
213034335	-217	272	-85	0.9919341E+00
213034337	-217	273	-84	0.9919341E+00
213034341	-218	274	-83	0.9919341E+00
213034345	-219	275	-82	0.9919341E+00
213034349	-219	276	-81	0.9919341E+00
213034353	-220	277	-80	0.9919341E+00
213034357	-221	278	-79	0.9919341E+00
213034401	-221	279	-78	0.9919341E+00
213034405	-222	280	-77	0.9919341E+00
213034409	-223	281	-76	0.9919341E+00
213034413	-223	282	-75	0.9919341E+00
213034417	-224	283	-74	0.9919341E+00
213034421	-225	284	-73	0.9919341E+00
213034423	-225	285	-72	0.9919341E+00
213034427	-226	286	-71	0.9919341E+00
213034431	-226	287	-70	0.9919341E+00
213034435	-227	288	-69	0.9919341E+00
213034439	-227	289	-68	0.9919341E+00
213034443	-228	290	-67	0.9919341E+00
213034447	-229	291	-66	0.9919341E+00
213034451	-229	292	-65	0.9919341E+00
213034455	-230	293	-64	0.9919341E+00
213034459	-230	294	-63	0.9919341E+00
213034503	-231	295	-62	0.9919341E+00
213034507	-231	296	-61	0.9919341E+00
213034511	-232	296	-60	0.9919341E+00
213034513	-232	297	-59	0.9919341E+00
213034517	-233	298	-58	0.9919341E+00
213034521	-233	299	-57	0.9919341E+00
213034525	-234	300	-56	0.9919341E+00
213034529	-234	301	-55	0.9919341E+00
213034533	-234	302	-54	0.9919341E+00
213034537	-235	303	-53	0.9919341E+00

213034541	-235	304	-52	0.9919341E+00
213034545	-236	304	-51	0.9919341E+00
213034549	-236	305	-50	0.9919341E+00
213034553	-237	306	-49	0.9919341E+00
213034557	-237	307	-48	0.9919341E+00
213034559	-237	308	-47	0.9919341E+00
213034603	-238	309	-46	0.9919341E+00
213034607	-238	310	-45	0.9919341E+00
213034611	-239	310	-44	0.9919341E+00
213034615	-239	311	-43	0.9919341E+00
213034619	-239	312	-42	0.9919341E+00
213034623	-240	313	-41	0.9919341E+00
213034627	-240	314	-40	0.9919341E+00
213034631	-240	314	-39	0.9919341E+00
213034635	-240	315	-38	0.9919341E+00
213034639	-241	316	-37	0.9919341E+00
213034643	-241	317	-36	0.9919341E+00
213034647	-241	318	-35	0.9919341E+00
213034649	-241	318	-34	0.9919341E+00
213034653	-242	319	-33	0.9919341E+00
213034657	-242	320	-32	0.9919341E+00
213034701	-242	321	-31	0.9919341E+00
213034705	-242	321	-30	0.9919341E+00
213034709	-242	322	-29	0.9919341E+00
213034713	-243	323	-28	0.9919341E+00
213034717	-243	324	-27	0.9919341E+00
213034721	-243	324	-26	0.9919341E+00
213034725	-243	325	-25	0.9919341E+00
213034729	-243	326	-23	0.9919341E+00
213034733	-243	327	-22	0.9919341E+00
213034735	-244	327	-21	0.9919341E+00
213034739	-244	328	-20	0.9919341E+00
213034743	-244	329	-19	0.9919341E+00
213034747	-244	329	-18	0.9919341E+00
213034751	-244	330	-17	0.9919341E+00
213034755	-244	331	-16	0.9919341E+00
213034759	-244	331	-15	0.9919341E+00
213034803	-244	332	-14	0.9919341E+00
213034807	-244	332	-13	0.9919341E+00
213034811	-244	333	-12	0.9919341E+00
213034815	-244	333	-11	0.9919341E+00
213034819	-244	334	-10	0.9919341E+00
213034823	-244	335	-9	0.9919341E+00
213034825	-244	335	-8	0.9919341E+00
213034829	-244	336	-7	0.9919341E+00
213034833	-244	336	-6	0.9919341E+00
213034837	-243	337	-5	0.9919341E+00
213034841	-243	337	-4	0.9919341E+00
213034845	-243	338	-3	0.9919341E+00
213034849	-243	338	-2	0.9919341E+00
213034853	-243	339	-1	0.9919341E+00
213034857	-243	339	0	0.9919341E+00
213034901	-243	340	1	0.9919341E+00
213034905	-243	340	2	0.9919341E+00
213034909	-242	340	3	0.9919341E+00
213034911	-242	341	5	0.9919341E+00

213034915	-242	341	6	0.9919341E+00
213034919	-241	341	7	0.9919341E+00
213034923	-241	341	8	0.9919341E+00
213034927	-241	341	9	0.9919341E+00
213034931	-240	342	10	0.9919341E+00
213034935	-240	342	11	0.9919341E+00
213034939	-240	342	12	0.9919341E+00
213034943	-239	342	13	0.9919341E+00
213034947	-239	342	14	0.9919341E+00
213034951	-239	342	15	0.9919341E+00
213034955	-238	342	16	0.9919341E+00
213034959	-238	342	17	0.9919341E+00
213035001	-238	343	18	0.9919341E+00
213035005	-237	343	19	0.9919341E+00
213035009	-237	343	20	0.9919341E+00
213035013	-237	343	21	0.9919341E+00
213035017	-236	343	22	0.9919341E+00
213035021	-236	343	23	0.9919341E+00
213035025	-235	343	24	0.9919341E+00
213035029	-235	343	25	0.9919341E+00
213035033	-234	343	26	0.9919341E+00
213035037	-234	343	27	0.9919341E+00
213035041	-234	343	28	0.9919341E+00
213035045	-233	343	29	0.9919341E+00
213035047	-233	343	30	0.9919341E+00
213035051	-232	343	31	0.9919341E+00
213035055	-232	343	32	0.9919341E+00
213035059	-231	343	33	0.9919341E+00
213035103	-231	343	34	0.9919341E+00
213035107	-230	343	35	0.9919341E+00
213035111	-230	343	36	0.9919341E+00
213035115	-229	343	37	0.9919341E+00
213035119	-229	343	38	0.9919341E+00
213035123	-228	343	39	0.9919341E+00
213035127	-227	343	40	0.9919341E+00
213035131	-227	343	41	0.9919341E+00
213035135	-226	343	42	0.9919341E+00
213035137	-226	343	43	0.9919341E+00
213035141	-225	343	44	0.9919341E+00
213035145	-225	343	45	0.9919341E+00
213035149	-224	342	46	0.9919341E+00
213035153	-223	342	47	0.9919341E+00
213035157	-223	342	48	0.9919341E+00
213035201	-222	342	49	0.9919341E+00
213035205	-221	342	50	0.9919341E+00
213035209	-221	342	51	0.9919341E+00
213035213	-220	342	52	0.9919341E+00
213035217	-219	342	53	0.9919341E+00
213035221	-219	341	54	0.9919341E+00
213035223	-218	341	55	0.9919341E+00
213035227	-217	341	56	0.9919341E+00
213035231	-217	341	57	0.9919341E+00
213035235	-216	341	57	0.9919341E+00
213035239	-215	341	58	0.9919341E+00
213035243	-214	340	59	0.9919341E+00
213035247	-214	340	60	0.9919341E+00

213035251	-213	340	61	0.9919341E+00
213035255	-212	340	62	0.9919341E+0C
213035259	-211	340	63	0.9919341E+00
213035303	-211	339	64	0.9919341E+00
213035307	-210	339	65	0.9919341E+00
213035311	-209	339	66	0.9919341E+00
213035313	-208	339	67	0.9919341E+00
213035317	-208	338	68	0.9919341E+00
213035321	-207	338	69	0.9919341E+00
213035325	-206	338	69	0.9919341E+00
213035329	-205	338	70	0.9919341E+00
213035333	-204	337	71	0.9919341E+00
213035337	-203	337	72	0.9919341E+00
213035341	-203	337	73	0.9919341E+00
213035345	-202	337	74	0.9919341E+00
213035349	-201	336	75	0.9919341E+00
213035353	-200	336	76	0.9919341E+00
213035357	-199	336	77	0.9919341E+00
213035359	-198	335	78	0.9919341E+00
213035403	-197	335	78	0.9919341E+00
213035407	-196	335	79	0.9919341E+00
213035411	-195	334	80	0.9919341E+00
213035415	-195	334	81	0.9919341E+00
213035419	-194	334	82	0.9919341E+00
213035423	-193	333	83	0.9919341E+00
213035427	-192	333	84	0.9919341E+00
213035431	-191	333	84	0.9919341E+00
213035435	-190	332	85	0.9919341E+00
213035439	-189	332	86	0.9919341E+00
213035443	-188	331	87	0.9919341E+00
213035447	-187	331	88	0.9919341E+00
213035449	-186	331	89	0.9919341E+00
213035453	-185	330	89	0.9919341E+00
213035457	-184	330	90	0.9919341E+00
213035501	-183	329	91	0.9919341E+00
213035505	-182	329	92	0.9919341E+00
213035509	-181	329	93	0.9919341E+00
213035513	-180	328	94	0.9919341E+00
213035517	-179	328	94	0.9919341E+00
213035521	-178	327	95	0.9919341E+00
213035525	-177	327	96	0.9919341E+00
213035529	-176	326	97	0.9919341E+00
213035533	-174	326	98	0.9919341E+00
213035535	-173	325	98	0.9919341E+00
213035539	-172	325	99	0.9919341E+00
213035543	-171	324	100	0.9919341E+00
213035547	-170	324	101	0.9919341E+00
213035551	-169	323	102	0.9919341E+00
213035555	-168	323	102	0.9919341E+00
213035559	-167	322	103	0.9919341E+00
213035603	-166	322	104	0.9919341E+00
213035607	-164	321	105	0.9919341E+00
213035611	-163	321	105	0.9919341E+00
213035615	-162	320	106	0.9919341E+00
213035619	-161	320	107	0.9919341E+00
213035623	-160	319	108	0.9919341E+00

213035625	-159	319	108	0.9919341E+00
213035629	-158	318	109	0.9919341E+00
213035633	-157	318	110	0.9919341E+00
213035637	-156	317	111	0.9919341E+00
213035641	-154	317	111	0.9919341E+00
213035645	-153	316	112	0.9919341E+00
213035649	-152	316	113	0.9919341E+00
213035653	-151	315	114	0.9919341E+00
213035657	-150	314	114	0.9919341E+00
213035701	-149	314	115	0.9919341E+00
213035705	-147	313	116	0.9919341E+00
213035709	-146	313	117	0.9919341E+00
213035711	-145	312	117	0.9919341E+00
213035715	-144	311	118	0.9919341E+00
213035719	-143	311	119	0.9919341E+00
213035723	-141	310	119	0.9919341E+00
213035727	-140	310	120	0.9919341E+00
213035731	-139	309	121	0.9919341E+00
213035735	-138	308	122	0.9919341E+00
213035739	-136	308	122	0.9919341E+00
213035743	-135	307	123	0.9919341E+00
213035747	-134	306	124	0.9919341E+00
213035751	-133	306	124	0.9919341E+00
213035755	-131	305	125	0.9919341E+00
213035759	-130	304	126	0.9919341E+00
213035801	-129	304	126	0.9919341E+00
213035805	-128	303	127	0.9919341E+00
213035809	-126	302	128	0.9919341E+00
213035813	-125	302	128	0.9919341E+00
213035817	-124	301	129	0.9919341E+00
213035821	-122	300	130	0.9919341E+00
213035825	-121	300	130	0.9919341E+00
213035829	-120	299	131	0.9919341E+00
213035833	-118	298	132	0.9919341E+00
213035837	-117	297	132	0.9919341E+00
213035841	-116	297	133	0.9919341E+00
213035845	-114	296	134	0.9919341E+00
213035847	-113	295	134	0.9919341E+00
213035851	-112	294	135	0.9919341E+00
213035855	-110	294	135	0.9919341E+00
213035859	-109	293	136	0.9919341E+00
213035903	-108	292	137	0.9919341E+00
213035907	-106	291	137	0.9919341E+00
213035911	-105	291	138	0.9919341E+00
213035915	-103	290	138	0.9919341E+00
213035919	-102	289	139	0.9919341E+00
213035923	-101	288	139	0.9919341E+00
213035927	-100	288	140	0.9919341E+00
213035931	-99	287	140	0.9919341E+00
213035935	-98	286	140	0.9919341E+00
213035937	-97	285	141	0.9919341E+00
213035941	-95	284	141	0.9919341E+00
213035945	-94	284	141	0.9919341E+00
213035949	-93	283	142	0.9919341E+00
213035953	-92	282	142	0.9919341E+00
213035957	-91	281	142	0.9919341E+00

213040001	-89	280	143	0.9919341E+00
213040005	-88	279	143	0.9919341E+00
213040009	-87	279	143	0.9919341E+00
213040013	-86	278	144	0.9919341E+00
213040017	-85	277	144	0.9919341E+00
213040021	-84	276	144	0.9919341E+00
213040023	-83	275	145	0.9919341E+00
213040027	-81	274	145	0.9919341E+00
213040031	-80	273	145	0.9919341E+00
213040035	-79	272	146	0.9919341E+00
213040039	-78	271	146	0.9919341E+00
213040043	-77	271	146	0.9919341E+00
213040047	-75	270	146	0.9919341E+00
213040051	-74	269	147	0.9919341E+00
213040055	-73	268	147	0.9919341E+00
213040059	-72	267	147	0.9919341E+00
213040103	-71	266	148	0.9919341E+00
213040107	-69	265	148	0.9919341E+00
213040111	-68	264	148	0.9919341E+00
213040113	-67	263	149	0.9919341E+00
213040117	-66	262	149	0.9919341E+00
213040121	-64	261	149	0.9919341E+00
213040125	-63	260	149	0.9919341E+00
213040129	-62	259	150	0.9919341E+00
213040133	-61	258	150	0.9919341E+00
213040137	-59	257	150	0.9919341E+00
213040141	-58	256	151	0.9919341E+00
213040145	-57	255	151	0.9919341E+00
213040149	-56	254	151	0.9919341E+00
213040153	-54	253	151	0.9919341E+00
213040157	-53	252	152	0.9919341E+00
213040159	-52	251	152	0.9919341E+00
213040203	-51	250	152	0.9919341E+00
213040207	-49	249	152	0.9919341E+00
213040211	-48	248	153	0.9919341E+00
213040215	-47	247	153	0.9919341E+00
213040219	-46	246	153	0.9919341E+00
213040223	-44	245	154	0.9919341E+00
213040227	-43	244	154	0.9919341E+00
213040231	-42	243	154	0.9919341E+00
213040235	-40	242	154	0.9919341E+00
213040239	-39	241	155	0.9919341E+00
213040243	-38	240	155	0.9919341E+00
213040247	-37	239	155	0.9919341E+00
213040249	-35	238	155	0.9919341E+00
213040253	-34	237	156	0.9919341E+00
213040257	-33	236	156	0.9919341E+00
213040301	-31	235	156	0.9919341E+00
213040305	-30	233	156	0.9919341E+00
213040309	-29	232	157	0.9919341E+00
213040313	-27	231	157	0.9919341E+00
213040317	-26	230	157	0.9919341E+00
213040321	-25	229	157	0.9919341E+00
213040325	-24	228	157	0.9919341E+00
213040329	-22	227	158	0.9919341E+00
213040333	-21	226	158	0.9919341E+00

213040335	-20	225	158	0.9919341E+00
213040339	-18	224	158	0.9919341E+00
213040343	-17	222	159	0.9919341E+00
213040347	-16	221	159	0.9919341E+00
213040351	-14	220	159	0.9919341E+00
213040355	-13	219	159	0.9919341E+00
213040359	-12	218	159	0.9919341E+00
213040403	-10	217	160	0.9919341E+00
213040407	-9	216	160	0.9919341E+00
213040411	-8	214	160	0.9919341E+00
213040415	-6	213	160	0.9919341E+00
213040419	-5	212	161	0.9919341E+00
213040423	-4	211	161	0.9919341E+00
213040425	-2	210	161	0.9919341E+00
213040429	-1	209	161	0.9919341E+00
213040433	0	207	161	0.9919341E+00
213040437	2	206	162	0.9919341E+00
213040441	3	205	162	0.9919341E+00
213040445	5	204	162	0.9919341E+00
213040449	6	203	162	0.9919341E+00
213040453	7	201	162	0.9919341E+00
213040457	9	200	163	0.9919341E+00
213040501	10	199	163	0.9919341E+00
213040505	12	198	163	0.9919341E+00
213040509	13	197	163	0.9919341E+00
213040511	14	195	163	0.9919341E+00
213040515	15	194	163	0.9919341E+00
213040519	17	193	163	0.9919341E+00
2130407 3	18 ·	192	164	0.9919341E+00
2130405 27	20	190	164	0.9919341E+00
213040531	21	189	164	0.9919341E+00
213040535	22	188	164	0.9919341E+00
213040539	24	187	164	0.9919341E+00
213040543	25	185	164	0.9919341E+00
213040547	26	184	164	0.9919341E+00
213040551	28	183	164	0.9919341E+00
213040555	29	182	164	0.9919341E+00
213040559	31	180	165	0.9919341E+00
213040601	32	179	165	0.9919341E+00
213040605	33	178	165	0.9919341E+00
213040609	35	176	165	0.9919341E+00
213040613	36	175	165	0.9919341E+00
213040617	38	174	165	0.9919341E+00
213040621	39	172	165	0.9919341E+00
213040625	40	171	165	0.9919341E+00
213040629	42	169	165	0.9919341E+00
213040633	43	168	165	0.9919341E+00
213040637	44	167	165	0.9919341E+00
213040641	46	165	165	0.9919341E+00
213040645	47	164	165	0.9919341E+00
213040647	48	162	165	0.9919341E+00
213040651	50	161	165	0.9919341E+00
213040655	51	160	165	0.9919341E+00
213040659	52	158	164	0.9919341E+00
213040703	54	157	164	0.9919341E+00
213040707	55	155	164	0.9919341E+00

213040711	56	154	164	0.9919341E+00
213040715	58	152	164	0.9919341E+00
213040719	59	151	164	0.9919341E+00
213040723	60	149	164	0.9919341E+00
213040727	62	148	164	0.9919341E+00
213040731	63	147	164	0.9919341E+00
213040735	64	145	164	0.9919341E+00
213040737	66	144	164	0.9919341E+00
213040741	67	142	164	0.9919341E+00
213040745	68	141	164	0.9919341E+00
213040749	70	139	164	0.9919341E+00
213040753	71	138	164	0.9919341E+00
213040757	72	136	164	0.9919341E+00
213040801	73	135	164	0.9919341E+00
213040805	75	133	164	0.9919341E+00
213040809	76	132	163	0.9919341E+00
213040813	77	130	163	0.9919341E+00
213040817	79	129	163	0.9919341E+00
213040821	80	127	163	0.9919341E+00
213040823	81	126	163	0.9919341E+00
213040827	83	125	163	0.9919341E+00
213040831	84	123	163	0.9919341E+00
213040835	85	122	163	0.9919341E+00
213040839	87	120	163	0.9919341E+00
213040843	88	119	163	0.9919341E+00
213040847	89	117	163	0.9919341E+00
213040851	91	116	163	0.9919341E+00
213040855	92	114	162	0.9919341E+00
213040859	93	113	162	0.9919341E+00
213040903	95	111	162	0.9919341E+00
213040907	96	110	162	0.9919341E+00
213040911	97	108	162	0.9919341E+00
213040913	98	107	162	0.9919341E+00
213040917	100	105	162	0.9919341E+00
213040921	101	104	162	0.9919341E+00
213040925	102	102	162	0.9919341E+00
213040929	104	101	162	0.9919341E+00
213040933	105	99	161	0.9919341E+00
213040937	106	98	161	0.9919341E+00
213040941	108	96	161	0.9919341E+00
213040945	109	95	161	0.9919341E+00
213040949	110	93	161	0.9919341E+00
213040953	112	92	161	0.9919341E+00
213040957	113	90	161	0.9919341E+00
213040959	114	88	160	0.9919341E+00
213041003	115	87	160	0.9919341E+00
213041007	117	85	160	0.9919341E+00
213041011	118	84	160	0.9919341E+00
213041015	119	82	160	0.9919341E+00
213041019	121	81	159	0.9919341E+00
213041023	122	79	159	0.9919341E+00
213041027	123	78	159	0.9919341E+00
213041031	124	76	159	0.9919341E+00
213041035	126	74	159	0.9919341E+00
213041039	127	73	158	0.9919341E+00
213041043	128	71	158	0.9919341E+00

213041047	129	70	158	0.9919341E+00
213041049	131	68	158	0.9919341E+00
213041053	132	67	158	0.9919341E+00
213041057	133	65	157	0.9919341E+00
213041101	134	64	157	0.9919341E+00
213041105	136	62	157	0.9919341E+00
213041109	137	60	157	0.9919341E+00
213041113	138	59	157	0.9919341E+00
213041117	140	57	156	0.9919341E+00
213041121	141	56	156	0.9919341E+00
213041125	142	54	156	0.9919341E+00
213041129	143	53	156	0.9919341E+00
213041133	145	51	155	0.9919341E+00
213041135	146	49	155	0.9919341E+00
213041139	147	48	155	0.9919341E+00
213041143	148	46	155	0.9919341E+00
213041147	149	45	154	0.9919341E+00
213041151	151	43	154	0.9919341E+00
213041155	152	42	154	0.9919341E+00
213041159	153	40	154	0.9919341E+00
213041203	154	38	154	0.9919341E+00
213041207	156	37	153	0.9919341E+00
213041211	157	35	153	0.9919341E+00
213041215	158	34	153	0.9919341E+00
213041219	159	32	153	0.9919341E+00
213041223	161	31	152	0.9919341E+00
213041225	162	29	152	0.9919341E+00
213041229	163	27	152	0.9919341E+00
213041233	164	26	152	0.9919341E+00
213041237	165	24	151	0.9919341E+00
213041241	167	23	151	0.9919341E+00
213041245	168	21	151	0.9919341E+00
213041249	169	20	151	0.9919341E+00
213041253	170	18	150	0.9919341E+00
213041257	172	16	150	0.9919341E+00
213041301	173	15	150	0.9919341E+00
213041305	174	13	150	0.9919341E+00
213041309	175	12	149	0.9919341E+00
213041311	175	10	148	0.9919341E+00
213041315	176	8	147	0.9919341E+00
213041319	177	7	145	0.9919341E+00
213041323	177	7	144	0.9919341E+00
213041327	177	6	143	0.9919341E+00
213041331	178	6	142	0.9919341E+00
213041335	179	6	141	0.9919341E+00
213041339	179	5	140	0.9919341E+00
213041343	179	5	139	0.9919341E+00
213041347	180	5	138	0.9919341E+00
213041349	180	5	137	0.9919341E+00
213041353	180	5	136	0.9919341E+00
213041357	181	5	135	0.9919341E+00
213041401	181	5	134	0.9919341E+00
213041405	181	5	134	0.9919341E+00
213041409	181	5	133	0.9919341E+00
213041413	182	5	132	0.9919341E+00
213041417	182	5	131	0.9919341E+00

213041421	182	5	130	0.9919341E+00
213041425	182	5	129	0.9919341E+00
213041429	183	5	129	0.9919341E+00
213041431	183	5	128	0.9919341E+00
213041435	183	5	127	0.9919341E+00
213041439	183	5	126	0.9919341E+00
213041443	184	5	125	0.9919341E+00
213041447	184	5	125	0.9919341E+00
213041451	184	5	124	0.9919341E+00
213041455	184	5	123	0.9919341E+00
213041459	184	5	122	0.9919341E+00
213041503	185	5	121	0.9919341E+00
213041507	185	5	121	0.9919341E+00
213041511	185	5	120	0.9919341E+00
213041515	185	5	119	0.9919341E+00
213041519	185	5	118	0.9919341E+00
213041521	185	5	118	0.9919341E+00
213041525	186	5	117	0.9919341E+00
213041529	186	5	116	0.9919341E+00
213041533	186	5	116	0.9919341E+00
213041537	186	5	115	0.9919341E+00
213041541	186	5	114	0.9919341E+00
213041545	186	5	113	0.9919341E+00
213041549	186	5	113	0.9919341E+00
213041553	186	5	112	0.9919341E+00
213041557	186	5	111	0.9919341E+00
213041601	186	5	111	0.9919341E+00
213041605	186	5	110	0.9919341E+00
213041607	187	5	110	0.9918431E+00
213041611	187	5	109	0.9918431E+00
213041615	187	5	108	0.9917522E+00
213041619	187	5	108	0.9917522E+00
213041623	187	5	107	0.9917522E+00
213041627	187	5	106	0.9916286E+00
213041631	187	5	106	0.9916286E+00
213041635	187	5	105	0.9916286E+00
213041639	187	5	105	0.9916286E+00
213041643	187	5	104	0.9915050E+00
213041647	187	5	103	0.9915050E+00
213041651	187	5	103	0.9915050E+00
213041655	187	5	102	0.9913391E+00
213041657	187	5	102	0.9913391E+00
213041701	187	5	101	0.9913391E+00
213041705	187	5	100	0.9911733E+00
213041709	187	5	100	0.9911733E+00
213041713	187	5	99	0.9911733E+00
213041717	187	5	99	0.9911733E+00
213041721	187	5	98	0.9911733E+00
213041725	187	5	98	0.9911733E+00
213041729	187	5	97	0.9909537E+00
213041733	187	5	96	0.9907342E+00
213041737	187	5	96	0.9907342E+00
213041741	187	5	95	0.9907342E+00
213041743	187	5	95	0.9907342E+00
213041747	187	5	94	0.9904473E+00
213041751	187	5	94	0.9904473E+00

213041755	187	5	93	0.9904473E+00
213041759	186	5	93	0.9904473E+00
213041805	186	5	92	0.9904473E+00
213041809	186	5	92	0.9904473E+00
213041811	186	5	91	0.9901603E+00
213041815	186	5	91	0.9901603E+00
213041819	186	5	90	0.9901603E+00
213041823	186	5	90	0.9901603E+00
213041827	186	5	89	0.9897905E+00
213041831	186	5	89	0.9897905E+00
213041833	186	5	88	0.9894207E+00
213041837	186	5	88	0.9894207E+00
213041841	186	5	87	0.9894207E+00
213041845	186	5	87	0.9894207E+00
213041849	185	5	87	0.9894207E+00
213041853	185	5	86	0.9894207E+00
213041857	185	5	86	0.9894207E+00
213041901	185	5	85	0.9889508E+00
213041905	185	5	85	0.9889508E+00
213041909	185	5	85	0.9889508E+00
213041913	185	5	84	0.9889508E+00
213041917	185	5	84	0.9889508E+00
213041919	185	5	83	0.9884810E+00
213041923	184	5	83	0.9884810E+00
213041927	184	5	83	0.9884810E+00
213041931	184	5	82	0.9884810E+00
213041935	184	5	82	0.9884810E+00
213041939	184	5	82	0.9884810E+00
213041943	184	5	81	0.9878931E+00
213041947	184	5	81	0.9878931E+00
213041951	183	5	81	0.9878931E+00
213041955	183	5	80	0.9878931E+00
213041959	183	5	80	0.9878931E+00
213042003	183	5	80	0.9878931E+00
213042007	183	5	79	0.9873051E+00
213042009	182	5	79	0.9873051E+00
213042013	182	5	78	0.9873051E+00
213042017	182	5	77	0.9865807E+00
213042021	181	5	77	0.9873051E+00
213042025	181	5	76	0.9865807E+00
213042029	181	5	75	0.9858564E+00
213042033	180	5	75	0.9865807E+00
213042037	180	5	74	0.9858564E+00
213042041	179	5	73	0.9858564E+00
213042045	179	5	73	0.9858564E+00
213042049	178	5	72	0.9849783E+00
213042053	178	4	71	0.9849783E+00
213042055	178	4	71	0.9849783E+00
213042059	177	4	70	0.9841001E+00
213042103	177	4	69	0.9841001E+00
213042107	176	4	69	0.9841001E+00
213042111	176	4	68	0.9830535E+00
213042115	175	4	67	0.9830535E+00
213042119	175	4	67	0.9830535E+00
213042123	174	4	66	0.9820070E+00
213042127	174	4	66	0.9820070E+00

213042131	173	4	65	0.9820070E+00
213042135	173	4	65	0.9820070E+00
213042139	172	4	64	0.9820070E+00
213042143	172	4	63	0.9807816E+00
213042145	171	4	63	0.9807816E+00
213042149	171	4	62	0.9807816E+00
213042153	170	3	62	0.9807816E+00
213042157	170	3	61	0.9795561E+00
213042201	169	3	61	0.9795561E+00
213042205	169	3	60	0.9795561E+00
213042209	168	3	60	0.9795561E+00
213042213	168	3	59	0.9781476E+00
213042217	167	3	59	0.9781476E+00
213042221	167	3	58	0.9783295E+00
213042225	166	3	58	0.9781476E+00
213042229	165	3	58	0.9781476E+00
213042231	165	3	57	0.9769211E+00
213042235	164	3	57	0.9781476E+00
213042239	164	3	56	0.9769211E+00
213042243	163	3	56	0.9769211E+00
213042247	163	3	55	0.9753335E+00
213042251	162	3	55	0.9769211E+00
213042255	162	3	55	0.9769211E+00
213042259	161	3	54	0.9753335E+00
213042303	160	3	54	0.9753335E+00
213042307	160	2	53	0.9753335E+00
213042311	159	2	53	0.9753335E+00
213042315	159	2	53	0.9753335E+00
213042319	158	2	52	0.9737459E+00
213042321	157	2	52	0.9737459E+00
213042325	157	2	52	0.9737459E+00
213042329	156	2	51	0.9737459E+00
213042333	156	2	51	0.9737459E+00
213042337	155	2	51	0.9737459E+00
213042341	155	2	50	0.9719931E+00
213042345	154	2	50	0.9719931E+00
213042349	153	2	50	0.9719931E+00
213042353	153	2	50	0.9719931E+00
213042357	152	2	49	0.9719931E+00
213042401	152	2	49	0.9719931E+00
213042405	151	2	49	0.9719931E+00
213042407	150	2	49	0.9719931E+00
213042411	150	2	49	0.9719931E+00
213042415	149	2	48	0.9717062E+00
213042419	148	2	48	0.9717062E+00
213042423	148	2	48	0.9717062E+00
213042427	147	2	48	0.9717736E+00
213042431	146	2	48	0.9717736E+00
213042435	146	2	47	0.9717062E+00
213042439	145	2	47	0.9717062E+00
213042443	144	2	47	0.9717736E+00
213042447	144	1	47	0.9702403E+00
213042451	143	1	47	0.9700583E+00
213042455	142	1	47	0.9700583E+00
213042457	142	1	46	0.9700207E+00
213042501	141	1	46	0.9699297E+00

213042505	140	1	46	0.9698388E+00
213042509	140	1	46	0.9698388E+00
213042513	139	1	46	0.9698388E+00
213042517	138	1	46	0.9698388E+00
213042521	138	1	46	0.9698388E+00
213042525	137	1	46	0.9698388E+00
213042529	136	1	46	0.9698925E+00
213042533	135	1	46	0.9698925E+00
213042537	135	1	45	0.9687922E+00
213042541	134	1	45	0.9687922E+00
213042543	133	1	45	0.9688459E+00
213042547	133	1	45	0.9688459E+00
213042551	132	1	45	0.9688459E+00
213042555	131	1	45	0.9688459E+00
213042559	131	1	45	0.9688459E+00
213042603	130	1	45	0.9688459E+00
213042607	129	1	45	0.9725201E+00
213042611	129	1	45	0.9725201E+00
213042615	128	1	45	0.9725201E+00
213042619	127	1	45	0.9725624E+00
213042623	127	1	45	0.9725624E+00
213042627	126	1	45	0.9725624E+00
213042631	125	1	46	0.9734404E+00
213042633	125	1	46	0.9734404E+00
213042637	124	1	46	0.9734729E+00
213042641	123	1	46	0.9766481E+00
213042645	123	1	46	0.9766481E+00
213042649	122	1	46	0.9766481E+00
213042653	121	1	46	0.9766481E+00
213042657	121	1	46	0.9766481E+00
213042701	120	1	46	0.9766481E+00
213042705	119	1	46	0.9766481E+00
213042709	119	1	46	0.9766481E+00
213042713	118	1	47	0.9767392E+00
213042717	117	1	47	0.9795561E+00
213042719	117	1	47	0.9795561E+00
213042723	116	1	47	0.9795561E+00
213042727	115	1	47	0.9795561E+00
213042731	115	1	48	0.9795561E+00
213042735	114	0	48	0.9795561E+00
213042739	113	0	48	0.9820070E+00
213042745	113	0	48	0.9820070E+00
213042747	112	0	49	0.9820070E+00
213042751	111	0	49	0.9820070E+00
213042755	111	0	49	0.9820070E+00
213042759	110	0	49	0.9820070E+00
213042803	109	0	50	0.9841001E+00
213042807	109	0	50	0.9841001E+00
213042809	109	0	49	0.9841001E+00
213042813	108	0	49	0.9841001E+00
213042817	108	0	49	0.9841001E+00
213042821	108	0	48	0.9820070E+00
213042825	109	0	48	0.9820070E+00
213042829	109	0	47	0.9820070E+00
213042833	109	0	47	0.9820070E+00
213042837	110	0	46	0.9795561E+00

213042841	110	0	45	0.9781476E+00
213042845	111	0	45	0.9767392E+00
213042849	111	0	44	0.9752903E+00
213042853	112	0	43	0.9721152E+00
213042855	112	0	42	0.9716257E+00
213042859	112	0	42	0.9716257E+00
213042903	113	0	41	0.9681200E+00
213042907	113	0	40	0.9675360E+00
213042911	114	-1	39	0.9635839E+00
213042915	114	-1	38	0.9630605E+00
213042919	115	-1	38	0.9631515E+00
213042923	115	-1	37	0.9589389E+00
213042927	115	-1	36	0.9582621E+00
213042931	116	-1	35	0.9459351E+00
213042935	116	-1	35	0.9459351E+00
213042939	117	-1	34	0.9435030E+00
213042943	117	-1	33	0.9397847E+00
213042945	117	-1	32	0.9349622E+00
213042949	118	-1	32	0.9358523E+00
213042953	118	-1	31	0.9301612E+00
213042957	118	-1	30	0.9267069E+00
213043001	119	-1	29	0.9225327E+00
213043007	119	-1	28	0.9180195E+00
213043011	119	-1	28	0.9180195E+00
213043013	120	-1	27	0.9122050E+00
213043017	120	-1	26	0.9051276E+00
213043021	120	-1	25	0.9007909E+00
213043025	121	-1	25	0.8987426E+00
213043029	121	-1	24	0.8952873E+00
213043031	121	-1	23	0.8919099E+00
213043035	122	-1	22	0.8935073E+00
213043039	122	-1	21	0.8889424E+00
213043043	122	-1	21	0.8889424E+00
213043047	122	-1	20	0.8856443E+00
213043051	123	-1	19	0.8769394E+00
213043055	123	-1	18	0.8702128E+00
213043059	123	-1	17	0.8642237E+00
213043103	123	-2	17	0.8576510E+00
213043107	124	-2	16	0.8554400E+00
213043111	124	-2	15	0.8438825E+00
213043115	124	-2	14	0.8439462E+00
213043119	124	-2	13	0.8357460E+00
213043121	124	-2	13	0.8357460E+00
213043125	125	-2	12	0.8345687E+00
213043129	125	-2	11	0.8251107E+00
213043133	125	-2	10	0.8222544E+00
213043137	125	-2	9	0.8116657E+00
213043141	125	-2	8	0.8059536E+00
213043145	125	-2	8	0.8059536E+00
213043149	126	-2	7	0.8042412E+00
213043153	126	-2	6	0.7962663E+00
213043157	126	-2	5	0.7947036E+00
213043201	126	-2	4	0.7797257E+00
213043205	126	-2	4	0.7797257E+00
213043207	126	-2	3	0.7826079E+00
213043211	126	-2	2	0.7779438E+00

213043215	126	-2	1	0.7727020E+00
213043219	126	-2	0	0.7823543E+00
213043223	127	-2	-1	0.7741587E+00
213043227	127	-2	-1	0.7741587E+00
213043231	127	-2	-2	0.7753798E+00
213043235	127	-2	-3	0.7771233E+00
213043239	127	-2	-4	0.7773176E+00
213043243	127	-2	-5	0.7734439E+00
213043247	127	-2	-6	0.7837600E+00
213043251	127	-2	-6	0.7837600E+00
213043255	127	-2	-7	0.7829252E+00
213043257	127	-2	-8	0.7801011E+00
213043301	127	-2	-9	0.7797294E+00
213043305	127	-2	-10	0.7830632E+00
213043309	127	-2	-11	0.7910354E+00
213043313	127	-2	-11	0.7910354E+00
213043317	127	-2	-12	0.7925293E+00
213043321	127	-2	-13	0.7957039E+00
213043325	127	-2	-14	0.8053991E+00
213043329	127	-2	-15	0.8087633E+00
213043333	127	-2	-16	0.8113098E+00
213043337	127	-2	-16	0.8113098E+00
213043341	126	-2	-17	0.8190906E+00
213043343	126	-2	-18	0.8216844E+00
213043347	126	-2	-19	0.8303060E+00
213043351	126	-2	-20	0.8334090E+00
213043355	126	-2	-21	0.8321628E+00
213043359	126	-3	-22	0.8495064E+00
213043403	126	-3	-22	0.8495064E+00
213043407	126	-3	-23	0.8530536E+00
213043411	126	-3	-24	0.8616570E+00
213043415	126	-3	-25	0.8644336E+00
213043419	125	-3	-26	0.8660579E+00
213043423	125	-3	-27	0.8752415E+00
213043427	125	-3	-27	0.8752415E+00
213043431	125	-3	-28	0.8796074E+00
213043433	125	-3	-29	0.8863760E+00
213043437	125	-3	-30	0.8868139E+00
213043441	125	-3	-31	0.8971232E+00
213043445	125	-3	-32	0.8961802E+00
213043449	124	-3	-33	0.9063583E+00
213043453	124	-3	-33	0.9063583E+00
213043457	124	-3	-34	0.9128242E+00
213043501	124	-3	-35	0.9175752E+00
213043505	124	-3	-36	0.9248970E+00
213043509	123	-3	-37	0.9243726E+00
213043513	123	-3	-38	0.9376953E+00
213043517	123	-3	-39	0.9379652E+00
213043519	123	-3	-39	0.9379652E+00
213043523	123	-3	-40	0.9476007E+00
213043527	122	-3	-41	0.9478717E+00
213043531	122	-3	-42	0.9554829E+00
213043535	122	-3	-43	0.9554829E+00
213043539	121	-3	-44	0.9621349E+00
213043543	121	-3	-45	0.9621349E+00
213043547	121	-3	-45	0.9621349E+00

213043551	121	-3	-46	0.9629982E+00
213043555	120	-3	-47	0.9684022E+00
213043559	120	-3	-48	0.9696276E+00
213043603	120	-3	-49	0.9732003E+00
213043607	119	-3	-50	0.9736590E+00
213043609	119	-4	-51	0.9776647E+00
213043613	119	-4	-51	0.9776647E+00
213043617	118	-4	-52	0.9771949E+00
213043621	118	-4	-53	0.9801660E+00
213043625	118	-4	-54	0.9805207E+00
213043629	117	-4	-55	0.9827144E+00
213043633	117	-4	-56	0.9830153E+00
213043637	116	-4	-57	0.9848325E+00
213043641	116	-4	-57	0.9848325E+00
213043645	116	-4	-58	0.9850826E+00
213043649	115	-4	-59	0.9865624E+00
213043653	115	-4	-60	0.9867665E+00
213043655	114	-4	-61	0.9881182E+00
213043659	114	-4	-62	0.9886248E+00
213043703	114	-4	-63	0.9893407E+00
213043707	113	-4	-64	0.9897799E+00
213043711	113	-4	-64	0.9897799E+00
213043715	112	-4	-65	0.9903538E+00
213043719	112	-4	-66	0.9905196E+00
213043723	111	-4	-67	0.9909588E+00
213043727	111	-4	-68	0.9910823E+00
213043731	110	-4	-69	0.9914140E+00
213043735	110	-4	-70	0.9915050E+00
213043739	109	-4	-70	0.9915050E+00
213043743	109	-4	-71	0.9917522E+00
213043745	108	-4	-72	0.9917522E+00
213043749	108	-4	-73	0.9919341E+00
213043753	107	-4	-74	0.9919341E+00
213043757	106	-4	-75	0.9919341E+00
213043801	106	-4	-76	0.9919341E+00
213043805	105	-4	-76	0.9919341E+00
213043809	105	-4	-77	0.9919341E+00
213043813	104	-4	-78	0.9919341E+00
213043817	104	-4	-79	0.9919341E+00
213043821	103	-4	-80	0.9919341E+00
213043825	102	-4	-81	0.9919341E+00
213043829	102	-4	-82	0.9919341E+00
213043831	101	-4	-82	0.9919341E+00
213043835	100	-4	-83	0.9919341E+00
213043839	100	-4	-84	0.9919341E+00
213043843	99	-4	-85	0.9919341E+00
213043847	99	-4	-86	0.9919341E+00
213043851	98	-4	-87	0.9919341E+00
213043855	97	-4	-88	0.9919341E+00
213043859	96	-4	-88	0.9919341E+00
213043903	96	-4	-89	0.9919341E+00
213043907	95	-4	-90	0.9919341E+00
213043911	94	-4	-91	0.9919341E+00
213043915	94	-4	-92	0.9919341E+00
213043919	93	-4	-93	0.9919341E+00
213043921	92	-4	-93	0.9919341E+00

213043925	92	-4	-94	0.9919341E+00
213043929	91	-4	-95	0.9919341E+00
213043933	90	-4	-96	0.9919341E+00
213043937	89	-4	-97	0.9919341E+00
213043941	88	-4	-98	0.9919341E+00
213043945	88	-5	-98	0.9919341E+00
213043949	87	-5	-99	0.9919341E+00
213043953	86	-5	-100	0.9919341E+00
213043957	85	-5	-101	0.9919341E+00
213044001	85	-5	-102	0.9919341E+00
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213044007	83	-5	-103	0.9919341E 00
213044011	82	-5	-104	0.9919341E+00
213044015	81	-5	-105	0.9919341E+00
213044019	80	-5	-106	0.9919341E+00
213044023	80	-5	-107	0.9919341E+00
213044027	79	-5	-108	0.9919341E+00
213044031	78	-5	-109	0.9919341E+00
213044035	77	-5	-109	0.9919341E+00
213044039	76	-5	-110	0.9919341E+00
213044043	75	-5	-111	0.9919341E+00
213044047	75	-5	-112	0.9919341E+00
213044051	74	-5	-113	0.9919341E+00
213044055	73	-5	-114	0.9919341E+00
213044057	72	-5	-115	0.9919341E+00
213044101	71	-5	-116	0.9919341E+00
213044105	70	-5	-116	0.9919341E+00
213044109	68	-5	-116	0.9919341E+00
213044113	66	-5	-116	0.9919341E+00
213044117	65	-5	-116	0.9919341E+00
213044121	65	-5	-115	0.9919341E+00
213044125	64	-4	-115	0.9919341E+00
213044129	63	-4	-114	0.9919341E+00
213044133	62	-4	-113	0.9919341E+00
213044137	61	-4	-112	0.9919341E+00
213044141	60	-4	-111	0.9919341E+00
213044143	60	-4	-110	0.9919341E+00
213044147	59	-4	-109	0.9919341E+00
213044151	58	-4	-108	0.9919341E+00
213044155	58	-4	-107	0.9919341E+00
213044159	57	-4	-106	0.9919341E+00
213044203	56	-4	-105	0.9919341E+00
213044207	56	-4	-104	0.9919341E+00
213044211	55	-4	-103	0.9919341E+00
213044215	55	-4	-102	0.9919341E+00
213044219	54	-4	-101	0.9919341E+00
213044223	53	-4	-99	0.9919341E+00
213044227	53	-4	-98	0.9919341E+00
213044231	52	-4	-97	0.9919341E+00
213044233	52	-4	-96	0.9919341E+00
213044237	51	-4	-95	0.9919341E+00
213044241	51	-4	-94	0.9919341E+00
213044245	50	-4	-93	0.9919341E+00
213044249	49	-4	-92	0.9919341E+00
213044255	49	-4	-90	0.9919341E+00
213044259	48	-4	-89	0.9919341E+00

213044305	47	-4	-88	0.9919341E+00
213044309	47	-4	-87	0.9919341E+00
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213044317	46	-4	-84	0.9919341E+00
213044319	46	-4	-83	0.9919341E+00
213044323	45	-4	-82	0.9919341E+00
213044327	45	-4	-81	0.9919341E+00
213044331	44	-4	-80	0.9919341E+00
213044335	44	-4	-79	0.9919341E+00
213044339	43	-4	-78	0.9919341E+00
213044343	43	-4	-77	0.9919341E+00
213044347	43	-4	-76	0.9919341E+00
213044351	42	-4	-75	0.9919341E+00
213044355	42	-4	-74	0.9919341E+00
213044359	42	-4	-73	0.9919341E+00
213044403	41	-4	-71	0.9919341E+00
213044407	41	-4	-70	0.9919341E+00
213044409	41	-4	-69	0.9919341E+00
213044413	40	-4	-68	0.9919341E+00
213044417	40	-4	-67	0.9919341E+00
213044421	40	-4	-66	0.9919341E+00
213044425	39	-4	-65	0.9919341E+00
213044429	39	-4	-64	0.9919341E+00
213044433	39	-4	-63	0.9919341E+00
213044437	39	-4	-62	0.9919341E+00
213044441	38	-4	-61	0.9919341E+00
213044445	38	-3	-60	0.9919341E+00
213044449	38	-3	-59	0.9919341E+00
213044453	38	-3	-58	0.9919341E+00
213044455	37	-3	-57	0.9919341E+00
213044459	37	-3	-55	0.9919341E+00
213044503	37	-3	-54	0.9919341E+00
213044507	37	-3	-53	0.9919341E+00
213044511	37	-3	-52	0.9919341E+00
213044515	37	-3	-51	0.9919341E+00
213044519	37	-3	-50	0.9919341E+00
213044523	37	-3	-49	0.9919341E+00
213044527	37	-3	-48	0.9919341E+00
213044531	37	-3	-47	0.9919341E+00
213044535	37	-3	-46	0.9919341E+00
213044539	37	-3	-45	0.9919341E+00
213044543	37	-3	-44	0.9919341E+00
213044545	37	-3	-43	0.9919341E+00
213044549	37	-3	-42	0.9919341E+00
213044553	37	-3	-41	0.9919341E+00
213044557	37	-3	-40	0.9919341E+00
213044601	37	-3	-39	0.9919341E+00
213044605	37	-3	-38	0.9917522E+00
213044609	37	-3	-37	0.9914140E+00
213044613	37	-3	-36	0.9909588E+00
213044617	37	-3	-35	0.9903538E+00
213044621	37	-3	-34	0.9894693E+00
213044625	37	-3	-33	0.9877582E+00
213044629	37	-3	-32	0.9858755E+00
213044631	37	-3	-32	0.9858755E+00
213044635	37	-3	-31	0.9835632E+00

213044639	37	-3	-30	0.9782331E+00
213044643	38	-3	-29	0.9700000E+00
213044647	38	-3	-28	0.9566977E+00
213044651	38	-3	-27	0.9468486E+00
213044655	38	-3	-26	0.9338058E+00
213044659	38	-3	-25	0.9121015E+00
213044703	38	-3	-25	0.9121015E+00
213044707	38	-3	-24	0.8899588E+00
213044711	39	-3	-23	0.8578779E+00
213044715	39	-3	-22	0.8347203E+00
213044719	39	-3	-21	0.7893467E+00
213044721	39	-3	-20	0.7570558E+00
213044725	39	-3	-19	0.7091291E+00
213044729	40	-3	-19	0.7095524E+00
213044733	40	-3	-18	0.6388580E+00
213044737	40	-3	-17	0.5330208E+00
213044741	40	-3	-16	0.4367155E+00
213044745	40	-3	-15	0.3774033E+00
213044749	41	-3	-14	0.3092558E+00
213044753	41	-3	-14	0.3092558E+00
213044757	41	-3	-13	0.2725244E+00
213044801	41	-3	-12	0.2360280E+00
213044805	42	-3	-11	0.2207488E+00
213044807	42	-3	-10	0.2044119E+00
213044811	42	-3	-9	0.1842917E+00
213044815	43	-3	-9	0.1924231E+00
213044819	43	-3	-8	0.1822503E+00
213044823	43	-3	-7	0.1792146E+00
213044827	44	-3	-6	0.1833545E+00
213044831	44	-3	-5	0.1818933E+00
213044835	44	-3	-5	0.1818933E+00
213044839	45	-3	-4	0.1836510E+00
213044843	45	-3	-3	0.1942639E+00
213044847	45	-3	-2	0.2000701E+00
213044851	46	-3	-1	0.2073455E+00
213044855	46	-2	-1	0.1920591E+00
213044857	47	-2	0	0.2090687E+00
213044901	47	-2	1	0.2132352E+00
213044905	47	-2	2	0.2316345E+00
213044909	48	-2	3	0.2511594E+00
213044913	48	-2	3	0.2511594E+00
213044917	49	-2	4	0.2830657E+00
213044921	49	-2	5	0.3130570E+00
213044925	50	-2	6	0.3587979E+00
213044929	50	-2	6	0.3587979E+00
213044933	51	-2	7	0.4099180E+00
213044937	51	-2	8	0.4590876E+00
213044941	52	-2	9	0.5149071E+00
213044943	52	-2	9	0.5149071E+00
213044947	53	-2	10	0.5986925E+00
213044951	53	-2	11	0.6583132E+00
213044955	54	-2	11	0.6556820E+00
213044959	54	-2	12	0.7054504E+00
213045003	55	-2	13	0.7327628E+00
213045007	55	-2	14	0.7621825E+00
213045011	56	-2	14	0.7639611E+00

213045015	56	-2	15	0.7848750E+00
213045019	57	-2	16	0.8148550E+00
213045023	57	-2	17	0.8320738E+00
213045027	58	-2	17	0.8310318E+00
213045031	59	-2	18	0.8487989E+00
213045033	59	-2	19	0.8643706E+00
213045037	60	-2	20	0.8847594E+00
213045043	60	-2	20	0.8847594E+00
213045045	61	-2	21	0.8951435E+00
213045049	62	-2	22	0.9100877E+00
213045053	62	-2	23	0.9182459E+00
213045057	63	-2	23	0.9191267E+00
213045101	63	-2	24	0.9261737E+00
213045105	64	-2	25	0.9301331E+00
213045109	65	-2	25	0.9299646E+00
213045113	65	-2	26	0.9376302E+00
213045117	66	-2	27	0.9444295E+00
213045119	67	-2	27	0.9445531E+00
213045123	67	-2	28	0.9509202E+00
213045127	68	-1	29	0.9602853E+00
213045131	69	-1	29	0.9573197E+00
213045135	70	-1	30	0.9602853E+00
213045139	70	-1	31	0.9654293E+00
213045143	71	-1	31	0.9640715E+00
213045147	72	-1	32	0.9654293E+00
213045151	72	-1	33	0.9695228E+00
213045155	73	-1	33	0.9689349E+00
213045159	74	-1	34	0.9701108E+00
213045203	75	-1	34	0.9695228E+00
213045207	75	-1	35	0.9732860E+00
213045209	76	-1	36	0.9759995E+00
213045213	77	-1	36	0.9758996E+00
213045217	78	-1	37	0.9788164E+00
213045221	78	-1	38	0.9788993E+00
213045225	79	-1	38	0.9788164E+00
213045229	80	-1	39	0.9813502E+00
213045233	81	-1	39	0.9785295E+00
213045237	81	-1	40	0.9814332E+00
213045241	82	-1	41	0.9814332E+00
213045245	83	-1	41	0.9814332E+00
213045249	84	-1	42	0.9835936E+00
213045253	85	-1	42	0.9835262E+00
213045255	85	-1	43	0.9838806E+00
213045259	86	-1	43	0.9835936E+00
213045303	87	-1	44	0.9838806E+00
213045307	88	-1	45	0.9858564E+00
213045311	89	-1	45	0.9858564E+00
213045315	89	-1	46	0.9858564E+00
213045319	90	-1	46	0.9858564E+00
213045323	91	-1	47	0.9858564E+00
213045327	92	-1	47	0.9858564E+00
213045331	93	-1	48	0.9858564E+00
213045335	94	-1	48	0.9858564E+00
213045339	95	-1	49	0.9873051E+00
213045343	95	-1	49	0.9873051E+00
213045345	96	-1	50	0.9873051E+00

213045349	97	-1	50	0.9873051E+00
213045353	98	-1	51	0.9873051E+00
213045357	99	-1	51	0.9873051E+00
213045401	100	0	52	0.9873051E+00
213045405	101	0	52	0.9873051E+00
213045409	101	0	52	0.9873051E+00
213045413	101	0	52	0.9873051E+00
213045417	101	0	51	0.9873051E+00
213045421	101	0	51	0.9873051E+00
213045425	101	0	50	0.9858564E+00
213045429	102	0	49	0.9858564E+00
213045431	102	0	49	0.9858564E+00
213045435	102	0	48	0.9841001E+00
213045439	102	0	47	0.9841001E+00
213045443	103	0	47	0.9820070E+00
213045447	103	0	46	0.9820070E+00
213045451	103	0	45	0.9795561E+00
213045455	103	0	45	0.9795561E+00
213045459	104	0	44	0.9786165E+00
213045503	104	0	43	0.9755633E+00
213045507	104	0	43	0.9755633E+00
213045511	104	0	42	0.9755633E+00
213045515	104	0	41	0.9721152E+00
213045519	105	0	41	0.9721152E+00
213045521	105	0	40	0.9718078E+00
213045525	105	0	39	0.9681200E+00
213045529	105	0	39	0.9681200E+00
213045533	105	0	38	0.9660270E+00
213045537	105	0	37	0.9639970E+00
213045541	106	0	37	0.9637498E+00
213045545	106	0	36	0.9633920E+00
213045549	106	0	35	0.9516538E+00
213045553	106	0	35	0.9516538E+00
213045557	106	0	34	0.9452340E+00
213045601	106	0	33	0.9446601E+00
213045605	106	0	33	0.9446601E+00
213045607	107	0	32	0.9373884E+00
213045611	107	0	31	0.9368308E+00
213045615	107	1	31	0.9375552E+00
213045619	107	1	30	0.9295777E+00
213045623	107	1	29	0.9268616E+00
213045627	107	1	28	0.9218261E+00
213045631	107	1	28	0.9218261E+00
213045635	107	1	27	0.9177869E+00
213045639	107	1	26	0.9104353E+00
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213045647	107	1	25	0.9029493E+00
213045651	107	1	24	0.8951261E+00
213045655	107	1	24	0.8951261E+00
213045657	107	1	23	0.8924739E+00
213045701	107	1	22	0.8907509E+00
213045705	107	1	22	0.8907509E+00
213045709	107	1	21	0.8875091E+00
213045713	107	1	21	0.8875091E+00
213045717	107	1	20	0.8804627E+00
213045721	107	1	19	0.8705820E+00

213045725	107	1	19	0.8705820E+00
213045729	107	1	18	0.8619807E+00
213045733	107	1	17	0.8518720E+00
213045737	107	1	17	0.8518720E+00
213045741	107	1	16	0.8454805E+00
213045743	107	1	15	0.8288028E+00
213045747	107	1	15	0.8288028E+00
213045751	107	1	14	0.8240748E+00
213045755	107	1	13	0.8095514E+00
213045759	107	1	13	0.8095514E+00
213045803	107	1	12	0.8036871E+00
213045807	107	1	11	0.7950678E+00
213045811	107	1	11	0.7950678E+00
213045815	107	2	10	0.7921569E+00
213045819	107	2	9	0.7813058E+00
213045823	107	2	9	0.7813058E+00
213045827	106	2	8	0.7680155E+00
213045831	106	2	8	0.7680155E+00
213045833	106	2	7	0.7585753E+00
213045837	106	2	6	0.7529334E+00
213045841	106	2	6	0.7529334E+00
213045845	106	2	5	0.7462728E+00
213045849	106	2	4	0.7363183E+00
213045853	106	2	4	0.7363183E+00
213045857	105	2	3	0.7328545E+00
213045901	105	2	2	0.7227752E+00
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213045909	105	2	1	0.7135032E+00
213045913	105	2	1	0.7135032E+00
213045917	105	2	0	0.7188405E+00
213045919	104	2	-1	0.7037122E+00
213045923	104	2	-1	0.7037122E+00
213045927	104	2	-2	0.7114756E+00
213045931	104	2	-3	0.7041790E+00
213045935	104	2	-3	0.7041790E+00
213045939	103	2	-4	0.7007368E+00
213045943	103	2	-4	0.7007368E+00
213045947	103	2	-5	0.6946476E+00
213045951	103	2	-6	0.7097952E+00
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213050007	102	3	-8	0.7031013E+00
213050009	101	3	-9	0.7086900E+00
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213050017	101	3	-10	0.7127680E+00
213050021	101	3	-10	0.7127680E+00
213050025	100	3	-11	0.7138518E+00
213050029	100	3	-12	0.7166448E+00
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213050037	100	3	-13	0.7302616E+00
213050041	99	3	-13	0.7228603E+00
213050045	99	3	-14	0.7320343E+00
213050049	99	3	-15	0.7469645E+00
213050053	98	3	-15	0.7483094E+00
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213050103	97	3	-17	0.7640436E+00
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213050111	97	3	-18	0.7794014E+00
213050115	96	3	-19	0.7801117E+00
213050119	96	3	-19	0.7801117E+00
213050123	96	3	-20	0.7929649E+00
213050127	95	3	-20	0.7882307E+00
213050131	95	3	-21	0.8139474E+00
213050135	95	3	-21	0.8139474E+00
213050139	94	3	-22	0.8141614E+00
213050143	94	3	-23	0.8307613E+00
213050145	93	3	-23	0.8317631E+00
213050149	93	3	-24	0.8334436E+00
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213050157	92	3	-25	0.8448721E+00
213050201	92	3	-25	0.8448721E+00
213050205	91	3	-26	0.8604219E+00
213050209	91	3	-26	0.8604219E+00
213050213	91	4	-27	0.8724282E+00
213050217	90	4	-27	0.8725301E+00
213050221	90	4	-28	0.8841324E+00
213050225	89	4	-28	0.8841324E+00
213050229	89	4	-29	0.8942677E+00
213050231	89	4	-30	0.8999494E+00
213050235	88	4	-30	0.8989029E+00
213050239	88	4	-31	0.9086768E+00
213050243	87	4	-31	0.9107286E+00
213050247	87	4	-32	0.9164397E+00
213050251	86	4	-32	0.9181926E+00
213050255	86	4	-33	0.9243695E+00
213050259	85	4	-33	0.9238281E+00
213050303	85	4	-34	0.9384335E+00
213050307	84	4	-34	0.9384335E+00
213050311	84	4	-35	0.9450449E+00
213050315	83	4	-35	0.9474725E+00
213050319	83	4	-36	0.9522611E+00
213050321	82	4	-36	0.9524442E+00
213050325	82	4	-37	0.9574229E+00
213050329	81	4	-37	0.9574229E+00
213050333	81	4	-38	0.9644977E+00
213050337	80	4	-38	0.9647824E+00
213050341	80	4	-38	0.9647824E+00
213050345	79	4	-39	0.9695845E+00
213050349	79	4	-39	0.9695845E+00
213050353	78	4	-40	0.9730483E+00
213050357	78	4	-40	0.9730483E+00
213050401	77	4	-41	0.9770548E+00
213050405	77	4	-41	0.9770548E+00
213050407	76	4	-42	0.9794697E+00
213050411	76	4	-42	0.9794697E+00
213050415	75	4	-43	0.9826306E+00
213050419	75	4	-43	0.9826306E+00
213050423	74	4	-44	0.9843218E+00
213050427	74	5	-44	0.9844128E+00
213050431	73	5	-45	0.9864283E+00

213050435	72	5	-45	0.9863372E+00
213050439	72	5	-46	0.9879337E+00
213050443	71	5	-46	0.9879337E+00
213050447	71	5	-47	0.9889603E+00
213050451	70	5	-47	0.9893457E+00
213050455	70	5	-48	0.9899734E+00
213050457	69	5	-48	0.9902627E+00
213050501	68	5	-49	0.9910823E+00
213050505	68	5	-49	0.9910823E+00
213050509	67	5	-50	0.9914140E+00
213050513	67	5	-50	0.9914140E+00
213050517	66	5	-51	0.9917522E+00
213050521	66	5	-51	0.9917522E+00
213050525	65	5	-52	0.9919341E+00
213050529	64	5	-52	0.9919341E+00
213050533	64	5	-52	0.9919341E+00
213050537	63	5	-53	0.9919341E+00
213050541	62	5	-53	0.9919341E+00
213050543	62	5	-54	0.9919341E+00
213050547	61	5	-54	0.9919341E+00
213050551	61	5	-55	0.9919341E+00
213050555	60	5	-55	0.9919341E+00
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213050607	58	5	-56	0.9919341E+00
213050611	57	5	-57	0.9919341E+00
213050615	57	5	-57	0.9919341E+00
213050619	56	5	-58	0.9919341E+00
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213050631	54	5	-59	0.9919341E+00
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213050641	52	6	-60	0.9919341E+00
213050645	51	6	-60	0.9919341E+00
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213050653	50	6	-61	0.9919341E+00
213050657	49	6	-61	0.9919341E+00
213050701	48	6	-62	0.9919341E+00
213050705	47	6	-62	0.9919341E+00
213050709	47	6	-62	0.9919341E+00
213050713	46	6	-63	0.9919341E+00
213050717	45	6	-63	0.9919341E+00
213050719	45	6	-63	0.9919341E+00
213050723	44	6	-64	0.9919341E+00
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213050751	44	6	-64	0.9919341E+00
213050755	44	6	-64	0.9919341E+00
213050759	44	6	-64	0.9919341E+00
213050803	44	6	-64	0.9919341E+00
213050807	44	6	-64	0.9919341E+00

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213050813	45	6	-64	0.9919341E+00
213050817	45	6	-63	0.9919341E+00
213050821	45	6	-63	0.9919341E+00
213050825	45	6	-63	0.9919341E+00
213050829	45	6	-63	0.9919341E+00
213050833	45	6	-63	0.9919341E+00
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213050841	44	6	-62	0.9919341E+00
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213050853	44	6	-62	0.9919341E+00
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213050919	42	6	-60	0.9919341E+00
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213050927	42	6	-60	0.9919341E+00
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213050939	41	6	-60	0.9919341E+00
213050943	41	6	-60	0.9919341E+00
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213050949	41	6	-59	0.9919341E+00
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213051001	40	6	-59	0.9919341E+00
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213051021	39	6	-58	0.9919341E+00
213051025	39	6	-58	0.9919341E+00
213051029	39	6	-58	0.9919341E+00
213051031	39	6	-58	0.9919341E+00
213051035	39	6	-57	0.9919341E+00
213051039	39	6	-57	0.9919341E+00
213051043	39	6	-57	0.9919341E+00
213051047	39	6	-56	0.9919341E+00
213051051	39	6	-56	0.9919341E+00
213051055	40	6	-56	0.9919341E+00
213051059	40	6	-55	0.9919341E+00
213051103	40	7	-54	0.9919341E+00
213051107	41	7	-54	0.9919341E+00
213051111	41	7	-53	0.9919341E+00
213051115	42	7	-53	0.9919341E+00
213051119	42	7	-52	0.9919341E+00
213051121	43	7	-52	0.9919341E+00
213051125	43	7	-51	0.9919341E+00
213051129	44	7	-51	0.9919341E+00
213051133	44	7	-50	0.9919341E+00
213051137	45	7	-50	0.9919341E+00
213051141	45	7	-49	0.9919341E+00

213051145	46	7	-49	0.9919341E+00
213051149	46	7	-48	0.9919341E+00
213051153	47	7	-48	0.9919341E+00
213051157	47	7	-47	0.9919341E+00
213051201	48	7	-47	0.9919341E+00
213051205	49	7	-46	0.9919341E+00
213051207	49	7	-46	0.9919341E+00
213051211	50	7	-45	0.9919341E+00
213051215	50	7	-45	0.9919341E+00
213051219	51	7	-45	0.9919341E+00
213051223	51	7	-44	0.9917522E+00
213051227	52	7	-44	0.9917522E+00
213051231	52	7	-43	0.9914140E+00
213051235	53	7	-43	0.9913229E+00
213051239	53	7	-42	0.9908677E+00
213051243	54	7	-42	0.9901391E+00
213051247	54	7	-42	0.9901391E+00
213051251	55	7	-42	0.9901391E+00
213051255	55	7	-41	0.9891799E+00
213051257	56	7	-41	0.9891799E+00
213051301	56	7	-41	0.9891799E+00
213051305	56	7	-41	0.9891799E+00
213051309	57	7	-41	0.9889603E+00
213051313	57	7	-41	0.9889603E+00
213051317	57	7	-41	0.9889603E+00
213051321	58	7	-42	0.9891799E+00
213051325	58	7	-42	0.9891799E+00
213051329	58	7	-42	0.9891799E+00
213051333	59	7	-42	0.9889603E+00
213051337	59	7	-42	0.9889603E+00
213051341	59	7	-42	0.9889603E+00
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213051347	60	7	-43	0.9891799E+00
213051351	60	7	-43	0.9891799E+00
213051355	60	7	-43	0.9891799E+00
213051359	60	7	-43	0.9891799E+00
213051403	60	7	-43	0.9891799E+00
213051407	60	7	-43	0.9891799E+00
213051411	60	7	-43	0.9891799E+00
213051415	59	7	-43	0.9899734E+00
213051419	59	7	-43	0.9899734E+00
213051423	59	7	-43	0.9899734E+00
213051427	59	7	-43	0.9899734E+00
213051431	58	7	-43	0.9901391E+00
213051433	58	7	-43	0.9901391E+00
213051437	58	7	-43	0.9901391E+00
213051441	58	7	-43	0.9901391E+00
213051445	57	7	-43	0.9901391E+00
213051449	57	7	-43	0.9901391E+00
213051453	57	7	-42	0.9891799E+00
213051457	57	7	-42	0.9891799E+00
213051501	57	7	-42	0.9891799E+00
213051505	56	7	-42	0.9899734E+00
213051509	56	7	-42	0.9899734E+00
213051513	56	7	-42	0.9899734E+00
213051517	56	7	-42	0.9899734E+00

213051519	56	7	-42	0.9899734E+00
213051523	56	7	-42	0.9899734E+00
213051527	56	7	-42	0.9899734E+00
213051531	56	7	-41	0.9891799E+00
213051535	56	7	-41	0.9891799E+00
213051539	56	7	-41	0.9891799E+00
213051543	56	7	-41	0.9891799E+00
213051547	56	7	-41	0.9891799E+00
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213051555	56	7	-41	0.9891799E+00
213051559	56	7	-40	0.9878427E+00
213051603	56	7	-40	0.9878427E+00
213051607	56	7	-40	0.9878427E+00
213051609	55	7	-40	0.9885905E+00
213051613	56	7	-40	0.9878427E+00
213051617	56	7	-40	0.9878427E+00
213051621	56	7	-39	0.9862462E+00
213051625	56	7	-39	0.9862462E+00
213051629	56	7	-39	0.9862462E+00
213051633	56	7	-39	0.9862462E+00
213051637	56	7	-39	0.9862462E+00
213051641	56	6	-38	0.9841073E+00
213051645	56	6	-38	0.9841073E+00
213051649	56	6	-38	0.9841073E+00
213051653	56	6	-38	0.9841073E+00
213051655	56	6	-37	0.9839414E+00
213051659	56	6	-37	0.9839414E+00
213051703	56	6	-37	0.9839414E+00
213051707	57	6	-37	0.9814348E+00
213051711	57	6	-37	0.9814348E+00
213051715	57	6	-36	0.9790249E+00
213051719	57	6	-36	0.9790249E+00
213051723	57	6	-36	0.9790249E+00
213051727	57	6	-36	0.9790249E+00
213051731	57	6	-36	0.9790249E+00
213051735	57	6	-35	0.9769817E+00
213051739	57	6	-35	0.9769817E+00
213051743	57	6	-35	0.9769817E+00
213051745	57	6	-35	0.9769817E+00
213051749	57	6	-35	0.9769817E+00
213051753	57	6	-34	0.9734399E+00
213051757	58	6	-34	0.9720234E+00
213051801	58	6	-34	0.9720234E+00
213051805	58	6	-34	0.9720234E+00
213051809	58	6	-34	0.9720234E+00
213051813	58	6	-34	0.9720234E+00
213051817	58	6	-33	0.9668183E+00
213051821	58	6	-33	0.9668183E+00
213051825	58	6	-33	0.9668183E+00
213051829	58	6	-33	0.9668183E+00
213051831	58	6	-33	0.9668183E+00
213051835	58	6	-33	0.9668183E+00
213051839	58	6	-32	0.9592975E+00
213051843	59	6	-32	0.9581307E+00
213051847	59	6	-32	0.9581307E+00
213051851	59	6	-32	0.9581307E+00

213051855	59	6	-32	0.9581307E+00
213051859	59	6	-32	0.9581307E+00
213051903	59	6	-31	0.9480077E+00
213051907	59	6	-31	0.9480077E+00
213051911	59	6	-31	0.9480077E+00
213051915	59	6	-31	0.9480077E+00
213051919	59	6	-31	0.9480077E+00
213051921	60	6	-31	0.9467651E+00
213051925	60	6	-31	0.9467651E+00
213051929	60	6	-30	0.9355351E+00
213051933	60	6	-30	0.9355351E+00
213051937	60	6	-30	0.9355351E+00
213051941	60	6	-30	0.9355351E+00
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213051949	60	5	-30	0.9357547E+00
213051953	60	5	-30	0.9357547E+00
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213052001	60	5	-30	0.9357547E+00
213052005	61	5	-29	0.9251442E+00
213052007	61	5	-29	0.9251442E+00
213052011	61	5	-29	0.9251442E+00
213052015	61	5	-29	0.9251442E+00
213052019	61	5	-29	0.9251442E+00
213052023	61	5	-29	0.9251442E+00
213052027	61	5	-29	0.9251442E+00
213052031	61	5	-29	0.9251442E+00
213052035	61	5	-29	0.9251442E+00
213052039	61	5	-29	0.9251442E+00
213052043	61	5	-29	0.9251442E+00
213052047	61	5	-29	0.9251442E+00
213052051	61	5	-29	0.9251442E+00
213052055	61	5	-28	0.9118460E+00
213052057	61	5	-28	0.9118460E+00
213052101	61	5	-28	0.9118460E+00
213052105	61	5	-28	0.9118460E+00
213052109	61	5	-28	0.9118460E+00
213052113	62	5	-28	0.9118460E+00
213052117	62	5	-28	0.9118460E+00
213052121	62	5	-28	0.9118460E+00
213052125	62	5	-28	0.9118460E+00
213052129	62	5	-28	0.9118460E+00
213052133	62	5	-28	0.9118460E+00
213052137	62	5	-28	0.9118460E+00
213052141	62	5	-28	0.9118460E+00
213052143	62	4	-28	0.9141126E+00
213052147	62	4	-27	0.8975230E+00
213052151	62	4	-27	0.8975230E+00
213052155	62	4	-27	0.8975230E+00
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213052203	62	4	-27	0.8975230E+00
213052207	62	4	-27	0.8975230E+00
213052211	62	4	-27	0.8975230E+00
213052215	63	4	-27	0.8993995E+00
213052219	63	4	-27	0.8993995E+00
213052223	63	4	-27	0.8993995E+00
213052227	63	4	-27	0.8993995E+00

213052231	63	4	-27	0.8993995E+00
213052233	63	4	-27	0.8993995E+00
213052237	63	4	-27	0.8993995E+00
213052241	63	4	-27	0.8993995E+00
213052245	63	4	-27	0.8993995E+00
213052249	63	4	-27	0.8993995E+00
213052253	63	4	-27	0.8993995E+00
213052257	63	4	-27	0.8993995E+00
213052301	63	4	-27	0.8993995E+00
213052305	63	4	-27	0.8993995E+00
213052309	63	4	-27	0.8993995E+00
213052313	63	4	-27	0.8993995E+00
213052317	64	4	-27	0.8936360E+00
213052319	64	4	-26	0.8746035E+00
213052323	64	4	-26	0.8746035E+00
213052327	64	4	-26	0.8746035E+00
213052331	64	4	-26	0.8746035E+00
213052335	64	4	-26	0.8746035E+00
213052339	64	4	-26	0.8746035E+00
213052343	64	4	-26	0.8746035E+00
213052347	65	4	-26	0.8730546E+00
213052351	65	4	-25	0.8591260E+00
213052355	65	4	-25	0.8591260E+00
213052359	65	4	-25	0.8591260E+00
213052403	65	4	-25	0.8591260E+00
213052407	65	3	-25	0.8546019E+00
213052409	65	3	-25	0.8546019E+00
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213052417	64	3	-25	0.8528309E+00
213052421	64	3	-24	0.8364170E+00
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213052429	64	3	-24	0.8364170E+00
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213052449	64	3	-23	0.8178982E+00
213052453	64	3	-23	0.8178982E+00
213052455	65	3	-23	0.8171515E+00
213052459	65	3	-23	0.8171515E+00
213052503	65	3	-22	0.7939587E+00
213052507	65	3	-22	0.7939587E+00
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213052515	65	3	-22	0.7939587E+00
213052519	65	3	-22	0.7939587E+00
213052523	65	3	-22	0.7939587E+00
213052527	66	3	-21	0.7793611E+00
213052531	66	3	-21	0.7793611E+00
213052535	66	3	-21	0.7793611E+00
213052539	66	3	-21	0.7793611E+00
213052543	66	3	-21	0.7793611E+00
213052545	66	2	-20	0.7415028E+00
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213052553	66	2	-20	0.7415028E+00
213052557	67	2	-20	0.7408596E+00
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213052609	67	2	-19	0.7208667E+00
213052613	67	2	-19	0.7208667E+00
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213052621	67	2	-19	0.7208667E+00
213052625	68	2	-19	0.7260935E+00
213052629	68	2	-19	0.7260935E+00
213052631	68	2	-19	0.7260935E+00
213052635	68	2	-18	0.6984860E+00
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213052703	69	2	-17	0.6874038E+00
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213052733	71	2	-16	0.6647055E+00
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213052827	71	1	-15	0.6233094E+00
213052831	71	1	-15	0.6233094E+00
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213052933	71	1	-14	0.5812201E+00
213052937	71	1	-13	0.5431013E+00

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213052943	72	1	-13	0.5557353E+00
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213052951	72	1	-13	0.5557353E+00
213052955	72	1	-13	0.5557353E+00
213052959	72	1	-13	0.5557353E+00
213053003	72	1	-13	0.5557353E+00
213053007	72	1	-13	0.5557353E+00
213053011	72	1	-12	0.5053678E+00
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213053019	72	1	-12	0.5053678E+00
213053023	72	1	-12	0.5053678E+00
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213053041	72	1	-12	0.5053678E+00
213053045	72	1	-11	0.4919316E+00
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213053105	72	1	-11	0.4919316E+00
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213053127	72	1	-10	0.4728211E+00
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213053203	72	0	-9	0.4499429E+00
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213053241	72	0	-8	0.4148921E+00
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213053323	72	0	-7	0.4161925E+00
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213053417	72	0	-7	0.4161925E+00
213053421	72	0	-7	0.4161925E+00
213053425	72	0	-7	0.4161925E+00
213053429	72	0	-7	0.4161925E+00
213053431	72	-1	-7	0.4219164E+00
213053435	72	-1	-7	0.4219164E+00
213053439	72	-1	-7	0.4219164E+00
213053443	72	-1	-8	0.4268638E+00
213053447	72	-1	-8	0.4268638E+00
213053451	72	-1	-8	0.4268638E+00
213053455	72	-1	-8	0.4268638E+00
213053459	72	-1	-8	0.4268638E+00
213053503	72	-1	-8	0.4268638E+00
213053507	72	-1	-7	0.4219164E+00
213053511	72	-1	-7	0.4219164E+00
213053515	73	-1	-7	0.4294745E+00
213053519	73	-1	-7	0.4294745E+00
213053521	73	-1	-7	0.4294745E+00
213053525	73	-1	-7	0.4294745E+00
213053529	73	-1	-7	0.4294745E+00
213053533	73	-1	-7	0.4294745E+00
213053537	73	-1	-6	0.4237388E+00
213053541	73	-1	-6	0.4237388E+00
213053545	73	-1	-6	0.4237388E+00
213053549	73	-1	-6	0.4237388E+00
213053553	73	-1	-6	0.4237388E+00
213053557	73	-1	-6	0.4237388E+00
213053601	73	-1	-6	0.4237388E+00
213053605	73	-1	-6	0.4237388E+00
213053607	73	-1	-5	0.4139640E+00
213053611	73	-1	-5	0.4139640E+00
213053615	73	-1	-5	0.4139640E+00
213053619	74	-1	-5	0.4327465E+00
213053623	74	-1	-5	0.4327465E+00
213053627	74	-1	-5	0.4327465E+00
213053631	74	-1	-5	0.4327465E+00
213053635	74	-1	-5	0.4327465E+00
213053639	74	-1	-4	0.4183182E+00
213053643	74	-1	-4	0.4183182E+00
213053647	74	-1	-4	0.4183182E+00

213053651	74	-1	-4	0.4183182E+00
213053655	74	-1	-4	0.4183182E+00
213053657	74	-1	-4	0.4183182E+00
213053701	74	-1	-4	0.4183182E+00
213053705	74	-1	-4	0.4183182E+00
213053709	74	-2	-4	0.4366569E+00
213053713	74	-2	-3	0.4339970E+00
213053717	75	-2	-3	0.4420303E+00
213053721	75	-2	-3	0.4420303E+00
213053725	75	-2	-3	0.4420303E+00
213053729	75	-2	-3	0.4420303E+00
213053733	75	-2	-3	0.4420303E+00
213053737	75	-2	-3	0.4420303E+00
213053741	75	-2	-3	0.4420303E+00
213053743	75	-2	-3	0.4420303E+00
213053747	75	-2	-3	0.4420303E+00
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213053755	75	-2	-3	0.4420303E+00
213053759	75	-2	-2	0.4607234E+00
213053803	76	-2	-2	0.4720340E+00
213053807	76	-2	-2	0.4720340E+00
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213053815	76	-2	-2	0.4720340E+00
213053819	76	-2	-2	0.4720340E+00
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213053833	76	-2	-2	0.4720340E+00
213053837	76	-2	-2	0.4720340E+00
213053841	76	-2	-2	0.4720340E+00
213053845	76	-2	-2	0.4720340E+00
213053849	77	-2	-1	0.4736232E+00
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213053901	77	-2	-1	0.4736232E+00
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213053939	78	-2	-1	0.4798830E+00
213053943	78	-2	-1	0.4798830E+00
213053947	78	-2	-1	0.4798830E+00
213053951	78	-2	-1	0.4798830E+00
213053955	78	-2	-1	0.4798830E+00
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213054003	78	-2	-1	0.4798830E+00
213054007	78	-2	-1	0.4798830E+00
213054009	78	-2	-1	0.4798830E+00
213054013	78	-2	-1	0.4798830E+00
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213054021	77	-2	-1	0.4736232E+00

213054025	77	-2	-1	0.4736232E+00
213054029	77	-2	-1	0.4736232E+00
213054033	77	-2	-1	0.4736232E+00
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213054041	77	-2	-1	0.4736232E+00
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213054053	77	-2	-1	0.4736232E+00
213054055	76	-2	-2	0.4720340E+00
213054059	76	-2	-2	0.4720340E+00
213054103	76	-2	-2	0.4720340E+00
213054107	76	-2	-2	0.4720340E+00
213054111	76	-2	-2	0.4720340E+00
213054115	76	-2	-2	0.4720340E+00
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213054123	76	-3	-2	0.4684914E+00
213054127	76	-3	-2	0.4684914E+00
213054131	76	-3	-2	0.4684914E+00
213054135	75	-3	-2	0.4661989E+00
213054139	75	-3	-2	0.4661989E+00
213054143	75	-3	-2	0.4661989E+00
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213054149	75	-3	-2	0.4661989E+00
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213054201	75	-3	-2	0.4661989E+00
213054205	74	-3	-2	0.4581577E+00
213054209	74	-3	-2	0.4581577E+00
213054213	74	-3	-2	0.4581577E+00
213054217	74	-3	-2	0.4581577E+00
213054221	74	-3	-2	0.4581577E+00
213054225	74	-3	-2	0.4581577E+00
213054229	74	-3	-2	0.4581577E+00
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213054235	73	-3	-2	0.4448092E+00
213054239	73	-3	-3	0.4450743E+00
213054243	73	-3	-3	0.4450743E+00
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213054251	73	-3	-3	0.4450743E+00
213054255	73	-3	-3	0.4450743E+00
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213054303	73	-3	-3	0.4450743E+00
213054307	72	-3	-3	0.4265497E+00
213054311	72	-3	-3	0.4265497E+00
213054315	72	-3	-3	0.4265497E+00
213054319	72	-3	-3	0.4265497E+00
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213054325	72	-3	-3	0.4265497E+00
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213054333	71	-3	-3	0.4161271E+00
213054337	71	-3	-3	0.4161271E+00
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213054345	71	-3	-3	0.4161271E+00
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213054401	70	-3	-3	0.4094985E+00
213054405	70	-3	-3	0.4094985E+00
213054407	70	-3	-3	0.4094985E+00
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213054427	69	-3	-3	0.4003290E+00
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213054509	68	-3	-2	0.3943866E+00
213054513	68	-3	-2	0.3943866E+00
213054517	68	-3	-2	0.3943866E+00
213054521	68	-3	-2	0.3943866E+00
213054525	68	-3	-2	0.3943866E+00
213054529	68	-3	-2	0.3943866E+00
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213054555	68	-2	-2	0.3800606E+00
213054559	67	-2	-2	0.3736931E+00
213054603	67	-2	-2	0.3736931E+00
213054607	67	-2	-2	0.3736931E+00
213054611	67	-2	-2	0.3736931E+00
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213054619	67	-2	-1	0.3725247E+00
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213054657	66	-2	-1	0.3660776E+00
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213054709	66	-2	0	0.3786064E+00
213054713	66	-2	0	0.3786064E+00
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213054719	66	-2	0	0.3786064E+00
213054723	66	-2	0	0.3786064E+00
213054727	66	-2	0	0.3786064E+00
213054731	66	-2	0	0.3786064E+00

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213054739	66	-2	0	0.3786064E+00
213054743	66	-2	0	0.3786064E+00
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213054751	66	-2	1	0.3817053E+00
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213054829	65	-2	2	0.3966066E+00
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213055001	64	-2	3	0.4088206E+00
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213055055	64	-2	4	0.4226266E+00
213055059	64	-2	4	0.4226266E+00
213055103	64	-2	4	0.4226266E+00
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213055251	63	-2	3	0.3967542E+00
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213055347	62	-2	3	0.3865909E+00
213055351	62	-1	3	0.3808095E+00
213055355	62	-1	3	0.3808095E+00
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213055403	62	-1	2	0.3604500E+00
213055407	62	-1	2	0.3604500E+00
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213055423	62	-1	2	0.3604500E+00
213055427	61	-1	2	0.3499253E+00
213055431	61	-1	2	0.3499253E+00
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213055517	61	-1	1	0.3265907E+00
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213055523	60	-1	1	0.3153419E+00
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213055539	60	-1	1	0.3153419E+00
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213055559	60	-1	0	0.3022612E+00
213055603	60	-1	0	0.3022612E+00
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213055617	59	-1	0	0.2939682E+00
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213055629	59	-1	0	0.2939682E+00
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213055645	58	-1	0	0.2903866E+00
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213055703	58	-1	0	0.2903866E+00
213055707	58	-1	-1	0.2757447E+00
213055711	58	-1	-1	0.2757447E+00
213055715	57	-1	-1	0.2687806E+00
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213055727	57	-1	-1	0.2687806E+00
213055731	57	-1	-1	0.2687806E+00
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213055739	57	-1	-1	0.2687806E+00
213055743	56	-1	-1	0.2614268E+00
213055745	56	0	-1	0.2564609E+00
213055749	56	0	-1	0.2564609E+00
213055753	56	0	-1	0.2564609E+00
213055757	56	0	-1	0.2564609E+00
213055801	56	0	-1	0.2564609E+00
213055805	56	0	-1	0.2564609E+00
213055809	56	0	-1	0.2564609E+00
213055813	56	0	-1	0.2564609E+00
213055817	55	0	-1	0.2515329E+00

213055821	55	0	-1	0.2515329E+00
213055825	55	0	-1	0.2515329E+00
213055829	55	0	-1	0.2515329E+00
213055831	55	0	-1	0.2515329E+00
213055835	55	0	-1	0.2515329E+00
213055839	1	0	0	0.6810124E-12

END

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